



Brunsing Associates, Inc.

May 3, 2006

Project No. 691

Ms. Joan Fleck
North Coast Regional Water Quality Control Board
5550 Skylane Boulevard, Suite A
Santa Rosa, California 95403

Groundwater Monitoring Report, April 2006

**505 Santa Rosa Avenue
Santa Rosa, California**

Dear Ms. Fleck:

This report presents the results of the groundwater monitoring performed at the 505 Santa Rosa Avenue, Santa Rosa, California (Plate 1) site by Brunsing Associates, Inc. (BAI). Water level measurements and groundwater sampling were performed on April 13, 2006. This report was prepared to fulfill the monitoring requirements of the North Coast Regional Water Quality Control Board (RWQCB), as outlined in their letter dated December 30, 2002.

Site History

A Phase I Environmental Site Assessment (ESA) report was prepared for the site, as part of a real estate sale. The Phase I ESA found evidence that a gasoline station was formerly located at the site in the early 1950's. No records pertaining to the locations of underground storage tanks (USTs) or whether the USTs had been removed from beneath the site were discovered.

Based on the findings of the Phase I ESA, BAI conducted research regarding the adjacent property and performed a limited site investigation. A records review of the adjacent property located at 421 Santa Rosa Avenue (Plate 2) was performed to assess contamination at the 421 Santa Rosa Avenue site. The records review indicated groundwater contamination was present beneath the 421 Santa Rosa Avenue site and that groundwater flowed towards the northwest.

On August 3, 2000, BAI conducted a limited field investigation that included a geophysical survey and excavation of a trench in an area where a "suspicious" object was located during the geophysical survey. The trench was excavated south of the "suspicious" object because of the presence of an underground electrical line. No USTs were observed in the trench, however, petroleum hydrocarbon odors were observed in the soils removed from the trench. A soil sample was collected from the bottom of the trench and analyzed for total petroleum hydrocarbons (TPH) as gasoline, benzene, toluene, ethylbenzene, and xylenes (BTEX), and methyl tertiary

butyl ether (MTBE). TPH as gasoline was reported at 42 milligrams per kilogram (mg/kg), and toluene, ethylbenzene, and xylenes were reported at 14 to 44 micrograms per kilogram ($\mu\text{g}/\text{kg}$).

On May 31, 2001, three USTs and the associated fuel lines were removed by John's Excavating. The USTs did not appear to have any obvious holes, however, one of the USTs was almost full of water. Groundwater was not encountered in the excavation. Ms. Joan Fleck of the RWQCB and a City of Santa Rosa Fire Department official were at the site on May 31, 2001, and based on the field observations and photoionization detector (PID) readings, requested that the area be over-excavated to remove as much of the contaminated soil as practical. One confirmation soil sample was collected from the bottom of the overexcavation and four sidewall soil samples were collected for analyses. Approximately 150 cubic yards of soil were excavated and stored onsite in 2 separate 75 cubic yard stockpiles. One 4-point composite soil sample was collected for analyses from each stockpile. The confirmation and stockpile composite soil samples were analyzed for TPH as gasoline, TPH as diesel, BTEX, and MTBE, and for total lead. The final depth of the excavation was approximately 12 feet below ground surface (bgs). Petroleum hydrocarbons were detected in confirmation soil samples collected from two of the sidewalls and from the bottom of the excavation. The results of the tank removals and over-excavation were presented in the BAI document "UST Removal Activities and Overexcavation", dated July 17, 2001.

Three groundwater monitoring wells (MW-1, MW-2, and MW-3; Plate 2) were installed at the site in April 2002. The well installation and initial groundwater sampling were reported in BAI's "Soil and Groundwater Investigation Report", dated August 13, 2002. A quarterly groundwater monitoring program has been conducted at the site since the installation of monitoring wells MW-1, MW-2, and MW-3.

Between March 15 and 17, 2004, BAI supervised the advancement of four soil borings and installation of two groundwater monitoring wells. Soil borings B-1 through B-3 were drilled on-site and soil boring B-4 and monitoring wells MW-4 and MW-5 were drilled off site (Plate 2). The results of the March 2004 drilling activities and groundwater monitoring event were included in the BAI document "Soil and Groundwater Investigation and Groundwater Monitoring Report", dated July 6, 2004.

Monitoring at the site is being coordinated with the monitoring being performed at 421 Santa Rosa Avenue. With the exception of the January 2005 groundwater level measurements, which were collected by BAI, groundwater level measurements and analytical data for the monitoring wells associated with the 421 Santa Rosa Avenue site (wells designated as CMW) are supplied by Clearwater Group Environmental Services (Clearwater), the consultant for 421 Santa Rosa Avenue site.



Water-level Measurements

Depth to water in the onsite monitoring wells (MW-1, MW-2, and MW-3) and off-site monitoring wells (MW-4 and MW-5), as well as Clearwater monitoring wells (CMW-4 and CMW-5), were measured on April 13, 2006 by BAI personnel. Depth to water measurements in monitoring wells associated with the 421 Santa Rosa Avenue site (CMW-1A, CMW-2A, CMW-4, CMW-5, CMW-6, CMW-7, CMW-8, CMW-9, CMW-10, CMW-11, and CMW-12) were independently collected on April 13, 2006 by Clearwater personnel. Based on the data provided by Clearwater and the data collected by BAI personnel, the groundwater elevations and flow directions on April 13, 2006 are depicted on Plate 3.

In the immediate vicinity of the former USTs, the April 13, 2006 predominant groundwater flow direction at 505 Santa Rosa Avenue was approximately to the north. In the vicinity of off-site monitoring wells MW-4 and MW-5, the groundwater flow direction was to the southwest (Plate 3). The predominate groundwater flow direction at the 421 Santa Rosa Avenue site appears to be radial, centered near well CMW-2A (Plate 3). In the northeastern and northwestern portions of the 421 Santa Rosa Avenue site, the flow direction ranged from north to northwest. The flow direction in the area of Sebastopol Avenue ranged from southwest to southeast. The April 13, 2006 calculated gradients for 421 Santa Rosa Avenue ranged from approximately 0.020 to 0.027 feet per foot (ft/ft). The April 13, 2006 calculated gradient for 505 Santa Rosa Avenue was approximately 0.027 ft/ft.

The measured depth to groundwater in the on-site and off-site monitoring wells and off-site Clearwater monitoring wells CMW-4 and CMW-5 have ranged from approximately 2.24 feet below the top of the well casing in April 2006 to approximately 11.45 feet bgs in October 2002. Groundwater flow directions calculated for the 505 Santa Rosa Avenue site have ranged from southwest to north-northwest. Groundwater flow directions calculated for the 421 Santa Rosa Avenue site range widely due to the apparent radial flow. A summary of historical groundwater elevations and approximate flow directions is provided in Table 1.

Groundwater Sampling

Monitoring wells MW-1, MW-2, MW-3, MW-4, and MW-5 were sampled on April 13, 2006. The monitoring wells were sampled in accordance with the sampling protocol presented in Appendix A. The groundwater monitoring field reports and sampling logs are provided in Appendix B. The April 13, 2006 groundwater samples collected as part of 505 Santa Rosa Avenue monitoring program were analyzed by BACE Analytical & Field Services (BAFS), a California-certified laboratory. The samples were analyzed for TPH as gasoline, BTEX, petroleum oxygenates, and lead scavengers using EPA Test Method 8260. The analytical results for monitoring wells CMW-4 and CMW-5 were provided by Clearwater Group Environmental Services.



For the April 13, 2006 sampling event, TPH as gasoline was detected in the samples collected from monitoring wells MW-2, MW-3, and MW-5 at reported concentrations of 2.4, 0.78 and 3.9 mg/l, respectively (Table 2). The groundwater sample collected from well MW-2 reportedly contained benzene, ethylbenzene, and xylenes at 13.6, 96.2, and 699 µg/l, respectively. Benzene, ethylbenzene, and xylenes were also reported in the monitoring well MW-5 sample at concentrations of 263, 842, and 146 µg/l, respectively. None of the analytes tested were detected in the MW-1 and MW-4 groundwater samples. A summary of the groundwater analytical results is provided in Table 2 and the well construction details are provided in Table 3.

As indicated by the data provided by Clearwater Group Environmental Services, TPH as gasoline, benzene, ethylbenzene, xylenes, MTBE, and di-isopropyl ether (DIPE) were reported in the CMW-4 groundwater sample. TPH as gasoline, benzene, ethylbenzene, and xylenes were also reported in the CMW-5 groundwater sample. The groundwater sample collected from monitoring well CMW-4 contained TPH as gasoline at 0.44 mg/l and benzene, ethylbenzene, and xylenes at concentrations of 5.8, 0.70, and 0.82 µg/l, respectively. The groundwater sample collected from monitoring well CMW-5 contained TPH as gasoline at 0.29 mg/l and benzene, ethylbenzene, and xylenes at concentrations of 1.6, 1.2, and 1.1 µg/l, respectively. MTBE and DIPE were also detected in the groundwater sample collected from well CMW-4 at concentrations of 0.96 and 1.2 µg/l, respectively. Furthermore, the Clearwater analytical results indicate groundwater samples collected from monitoring wells CMW-1A, CMW-7, CMW-8, CMW-10, CMW-11, and CMW-12 also contained petroleum hydrocarbon contamination. The highest concentration of TPH as gasoline reported in groundwater samples collected from the 421 Santa Rosa Avenue site was in the sample collected from monitoring well CMW-1A, located near the center of the property. The complete analytical laboratory report for samples collected from monitoring wells MW-1, MW-2, MW-3, MW-4, and MW-5 on April 13, 2006 is provided in Appendix C. The data provided by Clearwater is included in Appendix D.

Discussion and Recommendations

The analytical results of the April 2006 groundwater sampling event indicate TPH as gasoline concentrations decreased significantly in wells MW-2, MW-3, and MW-5 compared to the January 2006 analytical results. Furthermore, the benzene, ethylbenzene, and xylenes concentrations reported in the April 2006 MW-2 and MW-5 groundwater samples also decreased compared to the January 2006 analytical results. The analytical results for groundwater samples collected from monitoring well MW-1 were reported as non-detect for all analytes tested for the ninth consecutive quarter. No petroleum hydrocarbons have been reported in the MW-4 samples to date, with the exception of xylenes that were reported in September 2004.

Since petroleum hydrocarbons have not been reported in groundwater samples collected from monitoring well MW-1 for nine consecutive quarters and groundwater samples collected from well MW-4 have been reported as non-detect for all analytes tested for four consecutive quarters, BAI recommends that monitoring wells MW-1 and MW-4 not be sampled as part of the quarterly monitoring program for the 505 Santa Rosa Avenue site. However, depth to



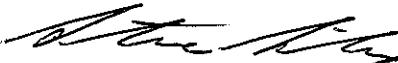
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groundwater measurements will continue to be collected from the three on-site monitoring wells (MW-1, MW-2, and MW-3) and two off-site wells (MW-4 and MW-5). Groundwater monitoring will also continue to be coordinated with monitoring of the 421 Santa Rosa Avenue site.

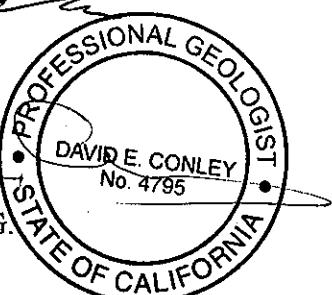
Schedule

The next quarterly groundwater monitoring event is tentatively scheduled for July 2006. During the July 2006 monitoring event, monitoring wells MW-2, MW-3, and MW-5 will be sampled. Should you have any questions regarding this report, please contact us at (707) 838-3027.

Sincerely,



Steve Silva
Project Geologist



DAVID E. CONLEY
No. 4795

David E. Conley, P.G.
Senior Geologist

cc: Ms. Virginia McNett, c/o McNett et al
Ms. Rosemarie Henninger
Mr. Gary Hursh
Mr. John Groth
Mr. Mark McCormick
Mr. Jim Ho

Attachments:

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| Table 2 | Groundwater Analytical Results |
| Table 3 | Well Construction Details |
| Plate 1 | Site Vicinity Map |
| Plate 2 | Site Map |
| Plate 3 | Groundwater Flow Map, April 13, 2006 |
| Appendix A | Groundwater Sampling Protocol |
| Appendix B | Groundwater Sampling Field Forms and Logs |
| Appendix C | Analytical Laboratory Report |
| Appendix D | Clearwater Group Environmental Services Data |



TABLES





TABLE 1
Groundwater Elevation Data
505 Santa Rosa Avenue
Santa Rosa, California

Well Number	Date Measured	Top of Casing Elevation (feet, MSL)	Depth to Fluid/Air Interface (feet)	Depth to Product/Water Interface (feet)	Elevation of Groundwater Uncorrected (feet, MSL)	Floating Product Thickness (feet)	Correction for Free Product (Factor of 0.76) ^A (feet)	Hydraulic Potential ^B (feet, MSL)	Predominant Groundwater Flow Direction and Approximate Gradient (ft/ft)
MW-1	4/26/2002	158.49	5.94	5.94	152.55	0.00	0.00	152.55	Southwest 0.005
MW-2	4/26/2002	157.60	5.15	5.15	152.45	0.00	0.00	152.45	
MW-3	4/26/2002	158.49	5.64	5.64	152.85	0.00	0.00	152.85	
CMW-4	4/26/2002	156.91	NM						
CMW-5	4/26/2002	157.42	NM						
MW-1	5/6/2002	158.49	6.35	6.35	152.14	0.00	0.00	152.14	
MW-2	5/6/2002	157.60	5.53	5.53	152.07	0.00	0.00	152.07	
MW-3	5/6/2002	158.49	6.02	6.02	152.47	0.00	0.00	152.47	
CMW-4	5/6/2002	156.91	NM						
CMW-5	5/6/2002	157.42	NM						
MW-1	6/27/2002	158.49	8.09	8.09	150.40	0.00	0.00	150.40	
MW-2	6/27/2002	157.60	7.27	7.27	150.33	0.00	0.00	150.33	
MW-3	6/27/2002	158.49	7.75	7.75	150.74	0.00	0.00	150.74	
CMW-4	6/27/2002	156.91	7.09	7.09	149.82	0.00	0.00	149.82	
CMW-5	6/27/2002	157.42	6.95	6.95	150.47	0.00	0.00	150.47	
MW-1	7/30/2002	158.49	9.33	9.33	149.16	0.00	0.00	149.16	
MW-2	7/30/2002	157.60	8.47	8.47	149.13	0.00	0.00	149.13	
MW-3	7/30/2002	158.49	8.93	8.93	149.56	0.00	0.00	149.56	
CMW-4	7/30/2002	156.91	8.22	8.22	148.69	0.00	0.00	148.69	
CMW-5	7/30/2002	157.42	8.08	8.08	149.34	0.00	0.00	149.34	



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									West-Southwest 0.005
MW-1	8/16/2002	158.49	9.81	9.81	148.68	0.00	0.00	148.68	West-Southwest 0.005
MW-2	8/16/2002	157.60	8.96	8.96	148.64	0.00	0.00	148.64	West-Southwest 0.005
MW-3	8/16/2002	158.49	9.39	9.39	149.10	0.00	0.00	149.10	West-Southwest 0.005
CMW-4	8/16/2002	156.91	8.61	8.61	148.30	0.00	0.00	148.30	West-Southwest 0.005
CMW-5	8/16/2002	157.42	8.49	8.49	148.93	0.00	0.00	148.93	West-Southwest 0.005
MW-1	9/10/2002	158.49	10.35	10.35	148.14	0.00	0.00	148.14	West-Southwest 0.005
MW-2	9/10/2002	157.60	9.41	9.41	148.19	0.00	0.00	148.19	West-Southwest 0.005
MW-3	9/10/2002	158.49	9.82	9.82	148.67	0.00	0.00	148.67	West-Southwest 0.005
CMW-4	9/10/2002	156.91	9.05	9.05	147.86	0.00	0.00	147.86	West-Southwest 0.005
CMW-5	9/10/2002	157.42	8.89	8.89	148.53	0.00	0.00	148.53	West-Southwest 0.005
MW-1	10/30/2002	158.49	11.45	11.45	147.04	0.00	0.00	147.04	West-Southwest 0.005
MW-2	10/30/2002	157.60	10.52	10.52	147.08	0.00	0.00	147.08	West-Southwest 0.005
MW-3	10/30/2002	158.49	10.95	10.95	147.54	0.00	0.00	147.54	West-Southwest 0.005
CMW-4	10/30/2002	156.91	10.17 ^C	10.17	146.74	0.00	0.00	146.74	West-Southwest 0.005
CMW-5	10/30/2002	157.42	10.04 ^C	10.04	147.38	0.00	0.00	147.38	West-Southwest 0.005
MW-1	12/31/2002	158.49	2.93	2.93	155.56	0.00	0.00	155.56	West-Southwest 0.005
MW-2	12/31/2002	157.60	2.51	2.51	155.09	0.00	0.00	155.09	West-Southwest 0.005
MW-3	12/31/2002	158.49	3.10	3.10	155.39	0.00	0.00	155.39	West-Southwest 0.005
CMW-4	12/31/2002	156.91	2.54	2.54	154.37	0.00	0.00	154.37	West-Southwest 0.005
CMW-5	12/31/2002	157.42	2.51	2.51	154.91	0.00	0.00	154.91	West-Southwest 0.005

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MW-1	1/8/2003	158.49	4.19	4.19	154.30	0.00	0.00	154.30	505 SRA Northwest 0.007
MW-2	1/8/2003	157.60	3.52	3.52	154.08	0.00	0.00	154.08	
MW-3	1/8/2003	158.49	4.14	4.14	154.35	0.00	0.00	154.35	
CMW-1 ^C	1/8/2003	159.30	5.32	5.32	153.98	0.00	0.00	153.98	
CMW-2 ^C	1/8/2003	158.83	5.04	5.04	153.79	0.00	0.00	153.79	421 SRA Northwest 0.019
CMW-4 ^C	1/8/2003	156.91	3.44	3.44	153.47	0.00	0.00	153.47	
CMW-5 ^C	1/8/2003	157.42	3.35	3.35	154.07	0.00	0.00	154.07	
CMW-6 ^C	1/8/2003	158.95	4.97	4.97	153.98	0.00	0.00	153.98	
CMW-7 ^C	1/8/2003	159.58	7.26	7.26	152.32	0.00	0.00	152.32	
MW-1	2/7/2003	158.49	4.88	4.88	153.61	0.00	0.00	153.61	
MW-2	2/7/2003	157.60	4.13	4.13	153.47	0.00	0.00	153.47	
MW-3	2/7/2003	158.49	4.69	4.69	153.80	0.00	0.00	153.80	
CMW-4	2/7/2003	156.91	3.90	3.90	153.01	0.00	0.00	153.01	
CMW-5	2/7/2003	157.42	3.85	3.85	153.57	0.00	0.00	153.57	
MW-1	3/10/2003	158.49	5.45	5.45	153.04	0.00	0.00	153.04	
MW-2	3/10/2003	157.60	4.63	4.63	152.97	0.00	0.00	152.97	
MW-3	3/10/2003	158.49	5.16	5.16	153.33	0.00	0.00	153.33	
CMW-4	3/10/2003	156.91	4.40	4.40	152.51	0.00	0.00	152.51	
CMW-5	3/10/2003	157.42	4.38	4.38	153.04	0.00	0.00	153.04	



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MW-1	4/9/2003	158.49	5.27	5.27	153.22	0.00	0.00	153.22	505 SRA
MW-2	4/9/2003	157.60	4.43	4.43	153.17	0.00	0.00	153.17	North-Northwest
MW-3	4/9/2003	158.49	4.99	4.99	153.50	0.00	0.00	153.50	0.010
CMW-1 ^C	4/9/2003	159.30	6.40	6.40	152.90	0.00	0.00	152.90	
CMW-2 ^C	4/9/2003	158.83	6.40	6.40	152.43	0.00	0.00	152.43	
CMW-4 ^C	4/9/2003	156.91	4.30	4.30	152.61	0.00	0.00	152.61	421 SRA
CMW-5 ^C	4/9/2003	157.42	4.35	4.35	153.07	0.00	0.00	153.07	Northwest
CMW-6 ^C	4/9/2003	158.95	6.05	6.05	152.90	0.00	0.00	152.90	0.026
CMW-7 ^C	4/9/2003	159.58	8.85	8.85	150.73	0.00	0.00	150.73	
MW-1	7/9/2003	158.49	7.45	7.45	151.04	0.00	0.00	151.04	505 SRA
MW-2	7/9/2003	157.60	6.51	6.51	151.09	0.00	0.00	151.09	Northwest
MW-3	7/9/2003	158.49	7.15	7.15	151.34	0.00	0.00	151.34	0.009
CMW-1 ^C	7/9/2003	159.30	7.36	7.36	151.94	0.00	0.00	151.94	
CMW-2 ^C	7/9/2003	158.83	8.48	8.48	150.35	0.00	0.00	150.35	421 SRA
CMW-4 ^C	7/9/2003	156.91	6.47	6.47	150.48	0.00	0.00	150.48	Northwest
CMW-5 ^C	7/9/2003	157.42	6.45	6.45	150.97	0.00	0.00	150.97	0.042
CMW-6 ^C	7/9/2003	158.95	8.02	8.02	150.93	0.00	0.00	150.93	
CMW-7 ^C	7/9/2003	159.58	10.77	10.77	148.81	0.00	0.00	148.81	

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MW-1	10/9/2003	158.49	10.73	10.73	147.76	0.00	0.00	147.76	505 SRA
MW-2	10/9/2003	157.60	9.92	9.92	147.68	0.00	0.00	147.68	Northwest 0.008
MW-3	10/9/2003	158.49	10.31	10.31	148.18	0.00	0.00	148.18	
CMW-1A ^C	10/9/2003	159.30	11.22	11.22	148.08	0.00	0.00	148.08	
CMW-2A ^C	10/9/2003	158.83	11.66	11.66	147.17	0.00	0.00	147.17	421 SRA
CMW-4 ^C	10/9/2003	156.91	9.59	9.59	147.32	0.00	0.00	147.32	Northwest 0.023
CMW-5 ^C	10/9/2003	157.42	9.60	9.60	147.82	0.00	0.00	147.82	
CMW-6 ^C	10/9/2003	158.95	10.89	10.89	148.06	0.00	0.00	148.06	
CMW-7 ^C	10/9/2003	159.58	13.50	13.50	146.08	0.00	0.00	146.08	
MW-1	1/8/2004	158.49	3.75	3.75	154.74	0.00	0.00	154.74	505 SRA
MW-2	1/8/2004	157.60	3.18	3.18	154.42	0.00	0.00	154.42	North-northwest 0.097
MW-3	1/8/2004	158.49	3.85	3.85	154.64	0.00	0.00	154.64	
CMW-1A ^C	1/8/2004	159.30	5.00	5.00	154.30	0.00	0.00	154.30	
CMW-2A ^C	1/8/2004	158.83	5.30	5.30	153.53	0.00	0.00	153.53	421 SRA
CMW-4 ^C	1/8/2004	156.91	6.35	6.35	150.56	0.00	0.00	150.56	West 0.026
CMW-5 ^C	1/8/2004	157.42	6.20	6.20	151.22	0.00	0.00	151.22	
CMW-6 ^C	1/8/2004	158.95	4.50	4.50	154.45	0.00	0.00	154.45	
CMW-7 ^C	1/8/2004	159.58	7.36	7.36	152.22	0.00	0.00	152.22	



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MW-1	3/30/2004	158.49	5.14	5.14	153.35	0.00	0.00	153.35	505 SRA
MW-2	3/30/2004	157.60	4.33	4.33	153.27	0.00	0.00	153.27	Northwest
MW-3	3/30/2004	158.49	4.90	4.90	153.59	0.00	0.00	153.59	to Southwest
MW-4	3/30/2004	156.49	4.35	4.35	152.14	0.00	0.00	152.14	0.007 to 0.008
MW-5	3/30/2004	156.77	4.17	4.17	152.60	0.00	0.00	152.60	
CMW-1A ^C	3/30/2004	159.30	NM						
CMW-2A ^C	3/30/2004	158.83	NM						
CMW-4	3/30/2004	156.91	4.10	4.10	152.81	0.00	0.00	152.81	
CMW-5	3/30/2004	157.42	4.19	4.18	153.24	0.00	0.00	153.24	
CMW-6 ^C	3/30/2004	158.95	NM						
CMW-7 ^C	3/30/2004	159.58	NM						
MW-1	4/9/2004	158.49	5.85	5.85	152.64	0.00	0.00	152.64	505 SRA
MW-2	4/9/2004	157.60	5.05	5.05	152.55	0.00	0.00	152.55	Northwest
MW-3	4/9/2004	158.49	5.52	5.52	152.97	0.00	0.00	152.97	to Southwest
MW-4	4/9/2004	156.49	5.07	5.07	151.42	0.00	0.00	151.42	0.005 to 0.011
MW-5	4/9/2004	156.77	4.99	4.99	151.78	0.00	0.00	151.78	
CMW-1A ^C	4/9/2004	159.30	6.62	6.62	152.68	0.00	0.00	152.68	
CMW-2A ^C	4/9/2004	158.83	6.63	6.63	152.20	0.00	0.00	152.20	
CMW-4 ^C	4/9/2004	156.91	5.06	5.06	151.85	0.00	0.00	151.85	421 SRA
CMW-5 ^C	4/9/2004	157.42	4.98	4.98	152.44	0.00	0.00	152.44	North-northwest
CMW-6 ^C	4/9/2004	158.95	6.42	6.42	152.53	0.00	0.00	152.53	to Southwest
CMW-7 ^C	4/9/2004	159.58	NM						0.006

Table 1. Groundwater Elevation Data

TABLE 1
Groundwater Elevation Data
505 Santa Rosa Avenue
Santa Rosa, California

Well Number	Date Measured	Top of Casing Elevation (feet, MSL)	Depth to Fluid/Air Interface (feet)	Depth to Product/Water Interface (feet)	Elevation of Groundwater Uncorrected (feet, MSL)	Floating Product Thickness (feet)	Correction for Free Product (Factor of 0.76) ^A (feet)	Hydraulic Potential ^B (feet, MSL)	Predominant Groundwater Flow Direction and Approximate Gradient (ft/ft)
MW-1	7/9/2004	158.49	9.37	9.37	149.12	0.00	0.00	149.12	505 SRA
MW-2	7/9/2004	157.60	8.51	8.51	149.09	0.00	0.00	149.09	Northwest
MW-3	7/9/2004	158.49	9.06	9.06	149.43	0.00	0.00	149.43	0.011
MW-4	7/9/2004	156.49	7.84	7.84	148.65	0.00	0.00	148.65	
MW-5	7/9/2004	156.77	8.55	8.55	148.22	0.00	0.00	148.22	
CMW-4 ^D	7/9/2004	156.91	8.36	8.36	148.55	0.00	0.00	148.55	
CMW-5 ^D	7/9/2004	157.42	8.37	8.37	149.05	0.00	0.00	149.05	
CMW-1A ^E	6/24/2004	159.30	10.05	10.05	149.25	0.00	0.00	149.25	421 SRA
CMW-2A ^E	6/24/2004	158.83	NM	NM					Not Calculated
CMW-4 ^E	6/24/2004	156.91	7.75	7.75	149.16	0.00	0.00	149.16	
CMW-5 ^E	6/24/2004	157.42	7.85	7.85	149.57	0.00	0.00	149.57	
CMW-6 ^E	6/24/2004	158.95	9.33	9.33	149.62	0.00	0.00	149.62	
CMW-7 ^E	6/24/2004	159.58	11.91	11.91	147.67	0.00	0.00	147.67	
MW-1	9/16/2004	158.49	11.05	11.05	147.44	0.00	0.00	147.44	505 SRA
MW-2	9/16/2004	157.60	10.31	10.31	147.29	0.00	0.00	147.29	Northwest
MW-3	9/16/2004	158.49	10.63	10.63	147.86	0.00	0.00	147.86	to West
MW-4	9/16/2004	156.49	9.53	9.53	146.96	0.00	0.00	146.96	0.009
MW-5	9/16/2004	156.77	10.13	10.13	146.64	0.00	0.00	146.64	
CMW-1A ^E	9/16/2004	159.30	11.67 ^F	11.67 ^F	147.63	0.00	0.00	147.63	421 SRA
CMW-2A ^E	9/16/2004	158.83	12.07 ^F	12.07 ^F	146.76	0.00	0.00	146.76	Northwest
CMW-4 ^E	9/16/2004	156.91	9.94 ^F	9.94 ^F	146.97	0.00	0.00	146.97	to West
CMW-5 ^E	9/16/2004	157.42	9.91 ^F	9.91 ^F	147.51	0.00	0.00	147.51	0.023
CMW-6 ^E	9/16/2004	158.95	11.18 ^F	11.18 ^F	147.77	0.00	0.00	147.77	
CMW-7 ^E	9/16/2004	159.58	13.87 ^F	13.87 ^F	145.71	0.00	0.00	145.71	





TABLE 1
Groundwater Elevation Data
505 Santa Rosa Avenue
Santa Rosa, California

Well Number	Date Measured	Top of Casing Elevation (feet, MSL)	Depth to Fluid/Air Interface (feet)	Depth to Product/Water Interface (feet)	Elevation of Groundwater Uncorrected (feet, MSL)	Floating Product Thickness (feet)	Correction for Free Product (Factor of 0.76) ^A	Hydraulic Potential ^B (feet, MSL)	Predominant Groundwater Flow Direction and Approximate Gradient (ft/ft)
MW-1	1/13/2005	158.49	3.40	3.40	155.09	0.00	0.00	155.09	505 SRA
MW-2	1/13/2005	157.60	2.93	2.93	154.67	0.00	0.00	154.67	Northwest
MW-3	1/13/2005	158.49	3.67	3.67	154.82	0.00	0.00	154.82	0.018
MW-4	1/13/2005	156.49	3.31	3.31	153.18	0.00	0.00	153.18	
MW-5	1/13/2005	156.77	3.40	3.40	153.37	0.00	0.00	153.37	
CMW-1A ^D	1/13/2005	159.30	4.91	4.91	154.39	0.00	0.00	154.39	421 SRA
CMW-2A ^D	1/13/2005	158.83	4.92	4.92	153.91	0.00	0.00	153.91	
CMW-4 ^D	1/16/2005	156.91	2.98	2.98	153.93	0.00	0.00	153.93	
CMW-5 ^D	1/13/2005	157.42	3.20	3.20	154.22	0.00	0.00	154.22	North to West
CMW-6 ^D	1/13/2005	158.95	4.28	4.28	154.67	0.00	0.00	154.67	0.013 to 0.018
CMW-7 ^D	1/13/2005	159.58	6.63	6.63	152.95	0.00	0.00	152.95	
MW-1	4/13/2005	158.49	4.39	4.39	154.10	0.00	0.00	154.10	505 SRA
MW-2	4/13/2005	157.60	3.76	3.76	153.84	0.00	0.00	153.84	Northwest
MW-3	4/13/2005	158.49	4.35	4.35	154.14	0.00	0.00	154.14	to southwest
MW-4	4/13/2005	156.49	4.12	4.12	152.37	0.00	0.00	152.37	0.011
MW-5	4/13/2005	156.77	3.74	3.74	153.03	0.00	0.00	153.03	
CMW-1A ^E	4/13/2005	159.30	5.73	5.73	153.57	0.00	0.00	153.57	421 SRA
CMW-2A ^E	4/13/2005	158.83	5.21	5.21	153.62	0.00	0.00	153.62	
CMW-4 ^E	4/13/2005	156.91	3.67	3.67	153.24	0.00	0.00	153.24	
CMW-5 ^E	4/13/2005	157.42	3.74	3.74	153.68	0.00	0.00	153.68	
CMW-6 ^E	4/13/2005	158.95	5.36	5.36	153.59	0.00	0.00	153.59	
CMW-7 ^E	4/13/2005	159.58	7.74	7.74	151.84	0.00	0.00	151.84	

Table 1. Groundwater Elevation Data



TABLE 1
Groundwater Elevation Data
505 Santa Rosa Avenue
Santa Rosa, California

Well Number	Date Measured	Top of Casing Elevation (feet, MSL)	Depth to Fluid/Air Interface (feet)	Depth to Product/Water Interface (feet)	Elevation of Groundwater Uncorrected (feet, MSL)	Floating Product Thickness (feet)	Correction for Free Product (Factor of 0.76) ^A (feet)	Hydraulic Potential ^B (feet, MSL)	Predominant Groundwater Flow Direction and Approximate Gradient (ft/ft)
MW-1	7/13/2005	158.49	6.84	6.84	151.65	0.00	0.00	151.65	505 SRA
MW-2	7/13/2005	157.60	6.02	6.02	151.58	0.00	0.00	151.58	Northwest
MW-3	7/13/2005	158.49	6.54	6.54	151.95	0.00	0.00	151.95	
MW-4	7/13/2005	156.49	5.59	5.59	150.90	0.00	0.00	150.90	0.005 to 0.009
MW-5	7/13/2005	156.77	6.06	6.06	150.71	0.00	0.00	150.71	
CMW-1A ^C	7/13/2005	159.30	7.79	7.79	151.51	0.00	0.00	151.51	
CMW-2A ^C	7/13/2005	158.83	7.67	7.67	151.16	0.00	0.00	151.16	421 SRA
CMW-4 ^C	7/13/2005	156.91	5.81	5.81	151.10	0.00	0.00	151.10	Northwest
CMW-5 ^C	7/13/2005	157.42	5.82	5.82	151.60	0.00	0.00	151.60	0.022
CMW-6 ^C	7/13/2005	158.95	7.35	7.35	151.60	0.00	0.00	151.60	
CMW-7 ^C	7/13/2005	159.58	9.98	9.98	149.60	0.00	0.00	149.60	



TABLE 1
Groundwater Elevation Data
505 Santa Rosa Avenue
Santa Rosa, California

Well Number	Date Measured	Top of Casing Elevation (feet, MSL)	Depth to Fluid/Air Interface (feet)	Depth to Product/Water Interface (feet)	Elevation of Groundwater Uncorrected (feet, MSL)	Floating Product Thickness (feet)	Correction for Free Product (Factor of 0.76) ^A (feet)	Hydraulic Potential ^B (feet, MSL)	Predominant Groundwater Flow Direction and Approximate Gradient (ft/ft)
MW-1	11/11/2005	158.49	9.30		149.19	0.00	0.00	149.19	505 SRA
MW-2	11/11/2005	157.60	8.43	8.43	149.17	0.00	0.00	149.17	Northwest
MW-3	11/11/2005	158.49	8.89	8.89	149.60	0.00	0.00	149.60	to Southwest
MW-4	11/11/2005	156.49	8.05	8.05	148.44	0.00	0.00	148.44	0.003 to 0.010
MW-5	11/11/2005	156.77	8.00	8.00	148.77	0.00	0.00	148.77	
CMW-4	11/11/2005	156.91	8.19	8.19	148.72	0.00	0.00	148.72	
CMW-5	11/11/2005	157.42	8.06	8.06	149.36	0.00	0.00	149.36	
CMW-1A ^C	10/28/2005	159.30	11.01	11.01	148.29	0.00	0.00	148.29	421 SRA
CMW-2A ^C	10/28/2005	158.83	11.18	11.18	147.65	0.00	0.00	147.65	Northeast, Northwest to South
CMW-4C	10/28/2005	156.91	9.05	9.05	147.86	0.00	0.00	147.86	0.009 to 0.047
CMW-5C	10/28/2005	157.42	8.97	8.97	148.45	0.00	0.00	148.45	
CMW-6C	10/28/2005	158.95	12.15	12.15	146.80	0.00	0.00	146.80	
CMW-7C	10/28/2005	159.58	12.96	12.96	146.62	0.00	0.00	146.62	
CMW-8C	10/28/2005	159.29	12.82	12.82	146.47	0.00	0.00	146.47	
CMW-9C	10/28/2005	158.69	12.33	12.33	146.36	0.00	0.00	146.36	
CMW-10C	10/28/2005	159.44	12.86	12.86	146.58	0.00	0.00	146.58	
CMW-11C	10/28/2005	158.26	9.42	9.42	148.84	0.00	0.00	148.84	
CMW-12C	10/28/2005	158.46	10.27	10.27	148.19	0.00	0.00	148.19	



TABLE 1
Groundwater Elevation Data
505 Santa Rosa Avenue
Santa Rosa, California

Well Number	Date Measured	Top of Casing (feet, MSL)	Depth to Fluid/Air Interface (feet)	Depth to Product/Water Interface (feet)	Elevation of Groundwater Uncorrected (feet, MSL)	Floating Product Thickness (feet)	Correction for Free Product (Factor of 0.76) ^A (feet)	Hydraulic Potential ^B (feet, MSL)	Predominant Groundwater Flow Direction and Approximate Gradient (ft/ft)
MW-1	1/17/2006	158.49	3.80	3.80	154.69	0.00	0.00	154.69	
MW-2	1/17/2006	157.60	3.15	3.15	154.45	0.00	0.00	154.45	505 SRA
MW-3	1/17/2006	158.49	3.91	3.91	154.58	0.00	0.00	154.58	North
MW-4	1/17/2006	156.49	3.89	3.89	152.60	0.00	0.00	152.60	0.014
MW-5	1/17/2006	156.77	3.35	3.35	153.42	0.00	0.00	153.42	
CMW-4	1/17/2006	156.91	3.20	3.20	153.71	0.00	0.00	153.71	
CMW-5	1/17/2006	157.42	3.28	3.28	154.14	0.00	0.00	154.14	
CMW-1A ^C	1/17/2006	159.30	4.96	4.96	154.34	0.00	0.00	154.34	421 SRA
CMW-2A ^C	1/17/2006	158.83	3.52	3.52	155.31	0.00	0.00	155.31	Radial - Centered near well CMW-2A
CMW-4C	1/17/2006	156.91	3.20	3.20	153.71	0.00	0.00	153.71	Northwest to Southwest to East
CMW-5C	1/17/2006	157.42	3.28	3.28	154.14	0.00	0.00	154.14	0.013 to 0.031
CMW-6C	1/17/2006	158.95	4.63	4.63	154.32	0.00	0.00	154.32	
CMW-7C	1/17/2006	159.58	6.77	6.77	152.81	0.00	0.00	152.81	
CMW-8C	1/17/2006	159.29	6.79	6.79	152.50	0.00	0.00	152.50	
CMW-9C	1/17/2006	158.69	6.31	6.31	152.38	0.00	0.00	152.38	
CMW-10C	1/17/2006	159.44	6.66	6.66	152.78	0.00	0.00	152.78	
CMW-11C	1/17/2006	158.26	3.25	3.25	155.01	0.00	0.00	155.01	
CMW-12C	1/17/2006	158.46	4.29	4.29	154.17	0.00	0.00	154.17	



TABLE 1
Groundwater Elevation Data
505 Santa Rosa Avenue
Santa Rosa, California

Well Number	Date Measured	Top of Casing Elevation (feet, MSL)	Depth to Fluid/Air Interface (feet)	Depth to Product/Water Interface (feet)	Elevation of Groundwater Uncorrected (feet, MSL)	Floating Product Thickness (feet)	Correction for Free Product (Factor of 0.76) ^A (feet)	Hydraulic Potential ^B (feet, MSL)	Predominant Groundwater Flow Direction and Approximate Gradient (ft/ft)
MW-1	4/13/2006	158.49	2.71	2.71	155.78	0.00	0.00	155.78	
MW-2	4/13/2006	157.60	2.24	2.24	155.36	0.00	0.00	155.36	505 SRA
MW-3	4/13/2006	158.49	3.18	3.18	155.31	0.00	0.00	155.31	North
MW-4	4/13/2006	156.49	3.09	3.09	153.40	0.00	0.00	153.40	0.027
MW-5	4/13/2006	156.77	2.65	2.65	154.12	0.00	0.00	154.12	
CMW-4	4/13/2006	156.91	2.68	2.68	154.23	0.00	0.00	154.23	
CMW-5	4/13/2006	157.42	2.73	2.73	154.69	0.00	0.00	154.69	
CMW-1A ^C	4/13/2006	159.30	3.92	3.92	155.38	0.00	0.00	155.38	421 SRA
CMW-2A ^C	4/13/2006	158.83	2.53	2.53	156.30	0.00	0.00	156.30	
CMW-4 ^C	4/13/2006	156.91	2.75	2.75	154.16	0.00	0.00	154.16	Radial - Centered near well CMW-2A
CMW-5 ^C	4/13/2006	157.42	2.85	2.85	154.57	0.00	0.00	154.57	North to Southeast to Southwest
CMW-6 ^C	4/13/2006	158.95	3.81	3.81	155.14	0.00	0.00	155.14	0.020 to 0.027
CMW-7 ^C	4/13/2006	159.58	5.13	5.13	154.45	0.00	0.00	154.45	
CMW-8 ^C	4/13/2006	159.29	5.03	5.03	154.26	0.00	0.00	154.26	
CMW-9 ^C	4/13/2006	158.69	4.72	4.72	153.97	0.00	0.00	153.97	
CMW-10 ^C	4/13/2006	159.44	4.91	4.91	154.53	0.00	0.00	154.53	
CMW-11 ^C	4/13/2006	158.26	2.37	2.37	155.89	0.00	0.00	155.89	
CMW-12 ^C	4/13/2006	158.46	3.67	3.67	154.79	0.00	0.00	154.79	



TABLE 1
Groundwater Elevation Data
505 Santa Rosa Avenue
Santa Rosa, California

Footnotes:

MSL = mean sea level

ft/ft = feet per foot

SRA = Santa Rosa Avenue

NM = not measured

A = Factor is equal to the density of gasoline (0.76 grams per cubic centimeter) divided by the density of groundwater (0.998 grams per cubic centimeter), as measured at the site.

B = Hydraulic potential is equal to the floating product thickness times the correction factor (0.76), plus the elevation of groundwater uncorrected.

C = Data provided by Clearwater Group Environmental Services (Clearwater)

D = Data collected by Brunsing Associates, Inc.

E = Data provided electronically by Clearwater Group Environmental Services

F = Depth to groundwater for CMW wells corrected by subtracting 1.1 foot from measurement provided by Clearwater (see text in the BAI document "Groundwater Monitoring Report, September 2004", dated November 30, 2004)

Wells CMW-1 through CMW-7 are part of investigation at 421 Santa Rosa Avenue



TABLE 2
Groundwater Analytical Results
505 Santa Rosa Avenue
Santa Rosa, California

Well Number	Date Sampled	TPH as Gasoline (mg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	MTBE ^A (µg/l)	Depth to Water (feet)
MW-1	4/26/2002	< 0.05	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	5.94
MW-1	7/30/2002	< 0.05	< 0.50	< 0.50	1.57	< 0.50	< 1.0	9.33
MW-1	11/5/2002	< 0.05	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	11.45
MW-1	1/8/2003	< 0.050	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	4.19
MW-1	4/9/2003	< 0.050	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	5.27
MW-1	7/9/2003	< 0.050	< 0.50	< 0.50	2.30	< 0.50	< 1.0	7.45
MW-1	10/9/2003	< 0.050	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	10.73
MW-1 ^C	1/8/2004	< 0.050	< 0.30	< 0.30	0.73	< 0.50	< 0.50	3.75
MW-1	3/30/2004	< 0.050	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	5.14
MW-1	7/9/2004	< 0.050	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	9.37
MW-1	9/16/2004	< 0.050	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	11.05
MW-1	1/13/2005	< 0.05	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	3.40
MW-1	4/13/2005	< 0.050	< 0.30	< 0.30	< 0.50	< 0.50	< 0.50	4.39
MW-1	7/13/2005	< 0.05	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	6.84
MW-1	11/11/2005	< 0.05	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	9.30
MW-1	1/17/2006	< 0.05	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	3.80
MW-1	4/13/2006	< 0.050	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	2.71
MW-2	4/26/2002	33	186	72.5	1,100	6,680	< 50	5.15
MW-2	7/30/2002	36	134	< 50	1,170	5,010	< 100	8.47
MW-2	11/5/2002	21	71.7	18.6	1,280	3,460	< 20	10.53



TABLE 2
Groundwater Analytical Results
505 Santa Rosa Avenue
Santa Rosa, California

Well Number	Date Sampled	TPH as Gasoline (mg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	MTBE ^A (µg/l)	Depth to Water (feet)
MW-2	1/8/2003	20	159	21.3	538	4,240	<20	3.52
MW-2	4/9/2003	14	125	19.8	607	2,590	<20	4.43
MW-2	7/9/2003	19	130	26.3	921	3,130	<20	6.51
MW-2	10/9/2003	23	64.6	15.2	1,220	3,900	<20	9.92
MW-2 ^C	1/8/2004	<0.050	170	32	400	4,500	<50	3.18
MW-2	3/30/2004	11	87.3	15.3	380	2,970	<20	4.33
MW-2	7/9/2004	13	65.7	11.5	1,140	2,950	<20	8.51
MW-2	9/16/2004	8.1	43.7	<10	705	1,650	<20	10.31
MW-2	1/13/2005	11	88.6	<10	590	3,100	<20	2.93
MW-2	4/13/2005	28	110	<30	1,000	3,400	<50	3.76
MW-2	7/13/2005	13	53.1	<10	485	1,030	<20	6.02
MW-2	11/11/2005	18	77.6	14.3	982	2,270	<20	8.43
MW-2	1/17/2006	19	43.0	<10	376	2,830	<20	3.15
MW-2	4/13/2006	2.4	13.6	<10	96.2	699	<20	2.24
MW-3	4/26/2002	8.3	<25	<25	<25	25.3	<50	5.64
MW-3	7/30/2002	17	<50	<50	<50	<50	<100	8.93
MW-3	11/5/2002	24	<10	<10	<10	85.3	<20	10.95
MW-3	1/8/2003	5.3	<10	<10	<10	34.8	<20	4.14
MW-3	7/9/2003	5.2	<5.0	<5.0	6.67	25.2	<10	7.15
MW-3	10/9/2003	7.5	<5.0	<5.0	<5.0	<5.0	<10	10.31



TABLE 2
Groundwater Analytical Results
505 Santa Rosa Avenue
Santa Rosa, California

Well Number	Date Sampled	TPH as Gasoline (mg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	MTBE ^A (µg/l)	Depth to Water (feet)
MW-3 ^C	1/8/2004	22	180	34	540	5,200	< 50	3.85
MW-3	3/30/2004	3.0	< 5.0	< 5.0	7.47	18.2	< 10	4.90
MW-3	7/9/2004	3.4	< 5.0	< 5.0		< 5.0	< 10	9.06
MW-3	9/16/2004	4.0	< 5.0	< 5.0		< 5.0	< 10	10.63
MW-3	1/13/2005	1.4	< 5.0	< 5.0		9.36	< 10	3.67
MW-3	4/13/2005	2.1	< 0.30	< 0.30	< 0.50	< 0.50	< 0.50	4.35
MW-3	7/13/2005	5.5	< 5.0	< 5.0		< 5.0	< 10	6.54
MW-3	11/11/2005	5.6	< 5.0	< 5.0	5.37	8.30	< 10	8.89
MW-3	1/17/2006	2.4	< 5.0	< 5.0	< 5.0	10.2	< 10	3.91
MW-3	4/13/2006	0.78	< 5.0	< 5.0	< 5.0	< 5.0	< 10	3.18
MW-4	3/30/2004	< 0.050	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	4.35
MW-4	7/9/2004	< 0.050	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0 ^D	7.84
MW-4	9/16/2004	< 0.050	< 0.50	< 0.50	0.77	< 1.0 ^E	< 1.0	9.53
MW-4	1/13/2005	< 0.05	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	3.31
MW-4	4/13/2005	< 0.050	< 0.30	< 0.30	< 0.50	< 0.50	< 0.50	4.12
MW-4	7/13/2005	< 0.05	< 0.50	< 0.530	< 0.50	< 0.50	< 1.0	5.59
MW-4	11/11/2005	< 0.05	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	8.05
MW-4	1/17/2006	< 0.05	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	3.89
MW-4	4/13/2006	< 0.050	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	3.09



TABLE 2
Groundwater Analytical Results
505 Santa Rosa Avenue
Santa Rosa, California

Well Number	Date Sampled	TPH as Gasoline (mg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	MTBE ^A (µg/l)	Depth to Water (feet)
MW-5	3/30/2004	25	1,170	<50	2,660	4,080	<100	4.17
MW-5	7/9/2004	53	3,650	<50	6,100	4,140	<100	8.55
MW-5	9/16/2004	28	2,520	<50	4,710	2,990	<100	10.13
MW-5	1/13/2005	9.7	755	<50	1,350	524	<100	3.40
MW-5	4/13/2005	46	1,700	<30	4,600	1,100	<50	3.74
MW-5	7/13/2005	36	1,400	<10	2,720	547	<20	6.06
MW-5	11/11/2005	25	1,490	13.4	2,760	1,020	<20	8.00
MW-5	1/17/2006	13	560	<10	1,204	366	<20	3.35
MW-5	4/13/2006	3.9	263	<10	842	146	<20	2.65
CMW-4 ^B	4/26/2002	14	1,400	200	450	1,000	0.95	5.03
CMW-4 ^B	7/30/2002	16	2,800	180	390	1,100	0.1	8.26
CMW-4 ^B	11/5/2002	12	2,700	45	150	87	<10	10.17
CMW-4 ^B	1/8/2003	3.9	570	47	120	240	<2.5	3.44
CMW-4 ^B	4/9/2003	12	1,100	95	290	460	<5.0	4.30
CMW-4 ^B	7/9/2003	14	1,600	93	290	480	<10	6.47
CMW-4 ^B	10/9/2003	12	2,300	49	180	170	<5.0	9.59
CMW-4 ^B	1/8/2004	4.4	570	39	120	210	<3.0	6.35
CMW-4 ^B	4/9/2004	11	1,700	97	270	500	<2.5	5.06
CMW-4 ^B	6/24/2004	8.5	1,500	52	160	220	<5.0	7.75
CMW-4 ^B	9/16/2004	8.5	1,700	28	79	68	<5.0 ^G	9.94 ^F



TABLE 2
Groundwater Analytical Results
505 Santa Rosa Avenue
Santa Rosa, California

Well Number	Date Sampled	TPH as Gasoline (mg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	MTBE ^A (µg/l)	Depth to Water (feet)
CMW-4 B	1/13/2005	2.9	330	17	60	88	1.4	2.98
CMW-4 B	4/13/2005	4.1	680	34	85	71	1.3	3.67
CMW-4 B	7/13/2005	11	960	38	220	140	< 1.5	5.81
CMW-4 B	10/28/2005	11	1,200	32	99	82	< 2.5 ^G	9.05
CMW-4 B	1/17/2006	2.4	290	19	64	67	1.2 ^G	3.20
CMW-4 B	4/13/2006	0.44	5.8	< 0.50	0.70	0.82	0.96 ^{G,I}	2.75
CMW-5 B	4/26/2002	6.5	16	29	160	530	< 2.0	4.93
CMW-5 B	7/30/2002	4.3	38	10	120	250	< 1.0	8.13
CMW-5 B	11/15/2002	3.8	130	8.4	60	80	0.81	10.04
CMW-5 B	1/8/2003	6.0	9.8	24	130	410	< 1.0	3.35
CMW-5 B	4/9/2003	12	< 5.0	24	310	1,000	< 5.0	4.35
CMW-5 B	7/9/2003	3.2	31	5.9	35	50	< 0.50	6.45
CMW-5 B	10/9/2003	3.1	40	4.6	22	36	0.90	9.60
CMW-5 B	1/8/2004	4.6	4	12.0	100	270	0.51	6.20
CMW-5 B	4/9/2004	3.7	8.2	5.3	22	34	0.53	4.98
CMW-5 B	6/24/2004	3.9	14.0	4.2	44	85	0.86	7.85
CMW-5 B	9/16/2004	2.3	19.0	2.4	8	12	0.97 ^G	9.91 ^F
CMW-5 B	1/13/2005	2.4	0.5	2.8	32	68	< 0.50	3.20
CMW-5 B	4/13/2005	3.5	0.95	2.0	51	100	< 0.50	3.74
CMW-5 B	7/13/2005	7.4	2.0	5.1	140	220	< 0.50	5.82
CMW-5 B	10/28/2005	2.4	2.7	2.4	10	8.1	0.56 ^G	8.97
CMW-5 B	1/17/2006	3.6	< 0.50	4.0	74	140	< 0.50 ^G	3.28
CMW-5 B	4/13/2006	0.29	1.6	< 0.50	1.2	1.1	< 0.50 ^G	2.85



TABLE 2
Groundwater Analytical Results
505 Santa Rosa Avenue
Santa Rosa, California

NOTES:

mg/l = milligrams per liter

µg/l = micrograms per

Less than symbol (<) indicates not detected at given laboratory reporting limit

A = Sample analyzed for petroleum oxygenates and lead scavengers using EPA Test Method 8260B with the exception of samples collected from wells CMW-4 and CMW-5. All analytes detected are listed.

B = Data for wells CMW-4 and CMW-5 provided by Clearwater Group Environmental Services.

C = Reported analytical results for groundwater samples collected on 1/8/2004 from wells MW-1, MW-2, and MW-3 may not be accurate due to possible mislabeling and/or sample carryover

D = Di-isopropyl ether (DIPE) reported at 1.50 µg/l

E = Di-isopropyl ether (DIPE) reported at 2.23 µg/l

F = Depth to groundwater for CMW wells corrected by 1.1 foot

(see text in the BAI document "Groundwater Monitoring Report, September 2004", dated November 12, 2004)

G = Clearwater groundwater samples analyzed for petroleum oxygenates and lead scavengers using EPA Test Method 8260

H = Di-isopropyl ether (DIPE) reported at 2.4 µg/l

I = Di-isopropyl ether (DIPE) reported at 1.2 µg/l



TABLE 3
Well Construction Details
505 Santa Rosa Avenue
Santa Rosa, California

Well Number	Date Installed	Installed by	Borehole Diameter (inches)	Total Borehole Depth (feet, bgs)	Screened Interval (feet, bgs)	Total Well Depth (feet, bgs)	Casing Diameter (inches)	Screen Slot Size (inches)	PVC Casing Elevation (feet, MSL)	Existing or Abandoned
MW-1	4/15/2002	BAI	8	20	5 to 20	20	2	0.010	158.49	Existing
MW-2	4/15/2002	BAI	8	20	5 to 20	20	2	0.010	157.60	Existing
MW-3	4/15/2002	BAI	8	20	5 to 20	20	2	0.010	158.49	Existing
MW-4	3/16/2004	BAI	8	15	5 to 15	15	2	0.010	156.49	Existing
MW-5	3/16/2004	BAI	8	15	5 to 15	15	2	0.010	156.77	Existing

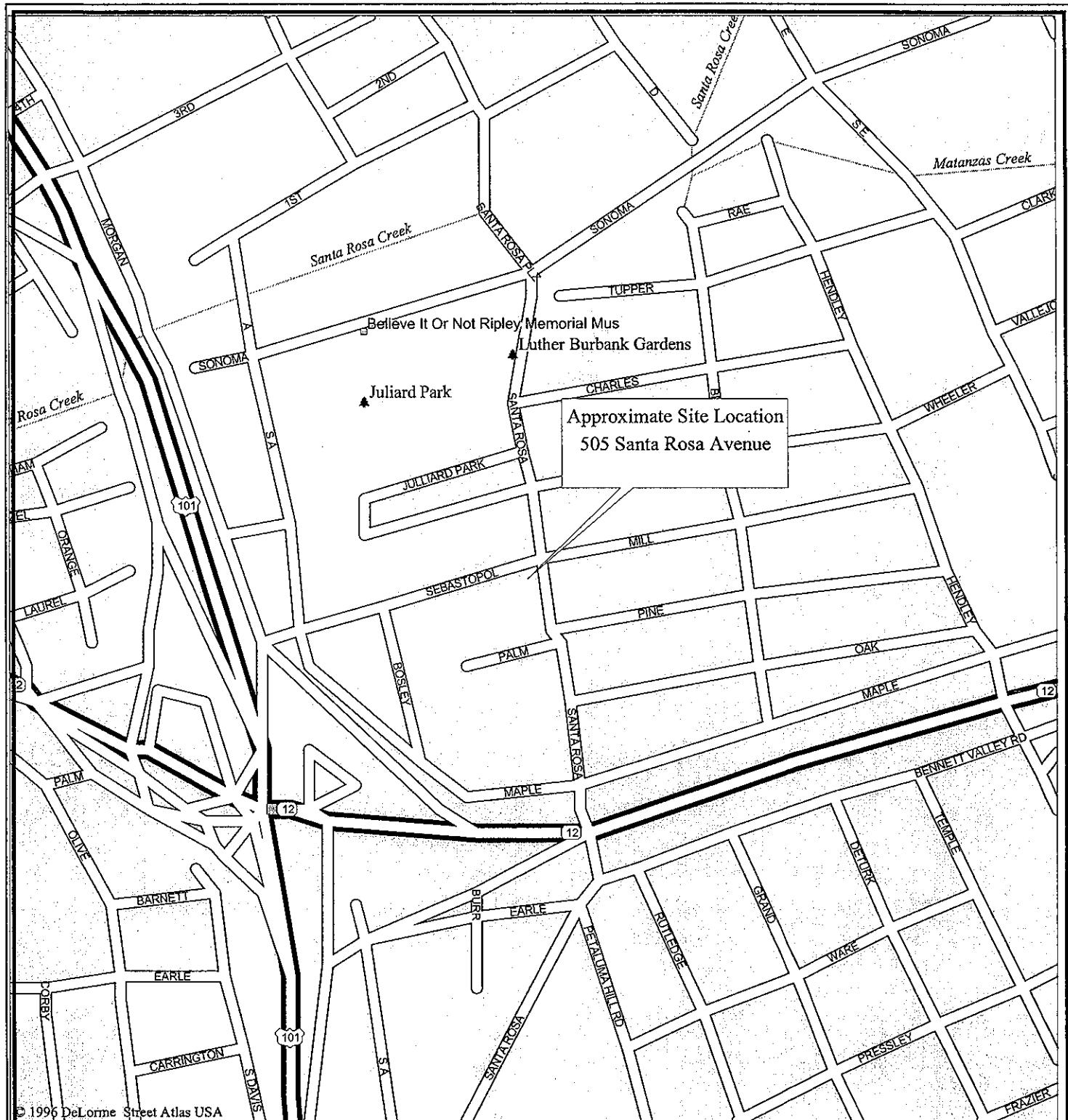
BAI = Brunsing Associates, Inc.

MSL = mean sea level

bgs = below ground surface

PLATES





Mag 16.00

Fri Feb 20 13:34 2004

Scale 1:6,250 (at center)

500 Feet

200 Meters

Secondary SR/Road/Hwy Ramp

Interstate/Limited Access

Point of Interest



PROJECT NO.: 691

DRAWN BY: SMS 2/20/04

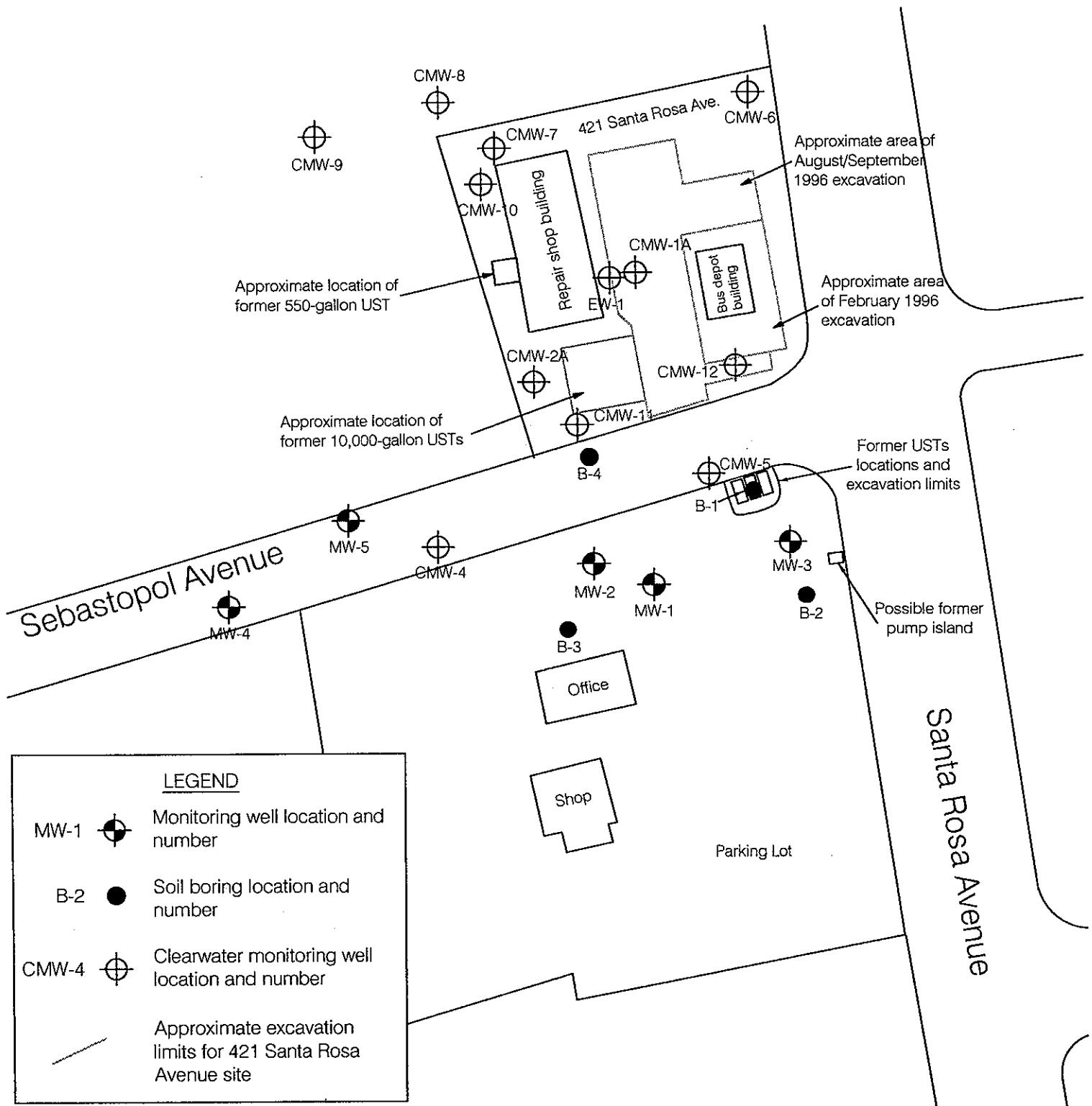
CHECKED BY:

APPROVED BY: RMD 7/6/04

REVISED:

Brunsing Associates, Inc.
P.O. Box 588
Windsor, California 95492

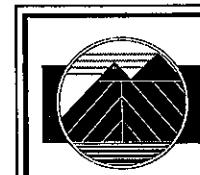
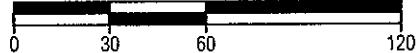
PLATE 1
Site Vicinity Map
505 Santa Rosa Avenue
Santa Rosa, California



Data for 421 Santa Rosa Avenue from Clearwater Group report dated September 20, 2005



APPROXIMATE SCALE (FEET)



Brunsing Associates, Inc.
5468 Skylane Blvd., Suite 201
Santa Rosa, California 95403
Tel: (707) 838-3027

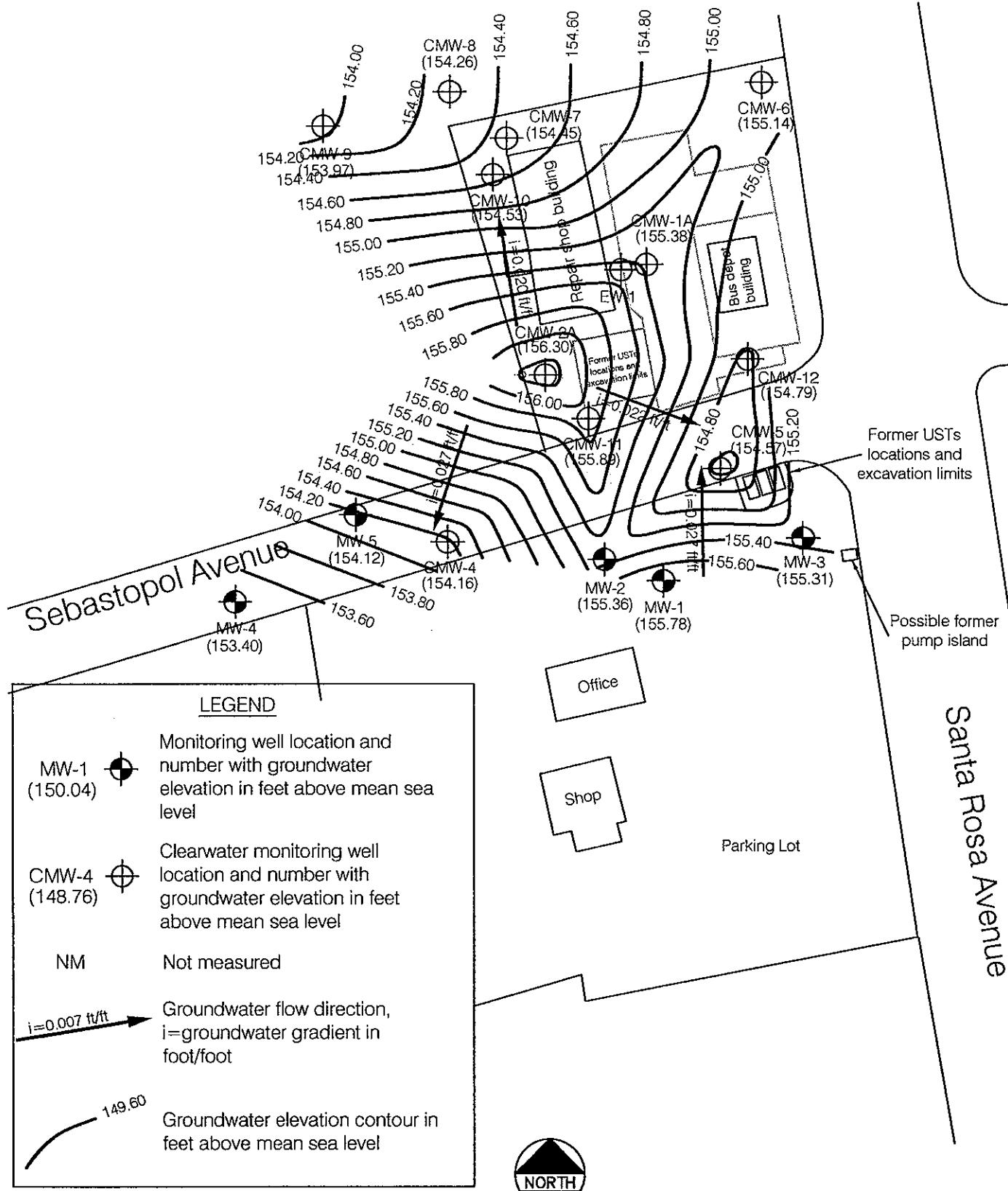
Job No.: 691

Appr.:

Date: 12/15/05

SITE MAP
505 Santa Rosa Avenue
Santa Rosa, California

PLATE
2



Reference:

Clearwater well locations and data from Clearwater Environmental Services.

Ray Carlson & Associates, June 4, 2004



APPROXIMATE SCALE (FEET)



Brunsing Associates, Inc.
5468 Skylane Blvd., Suite 201
Santa Rosa, California 95403
Tel: (707) 838-3027

Job No.: 691

Appr.: M

GROUNDWATER FLOW MAP

April 13, 2006
505 Santa Rosa Avenue
Santa Rosa, California

PLATE

3

APPENDIX A

Groundwater Sampling Protocol



Groundwater Sampling Protocol

Monitoring Wells

Prior to purging a monitoring well, groundwater levels are measured with a Solinst electric depth measurement device, or an interface probe, in all wells that are to be measured. At sites where petroleum hydrocarbons are possible contaminants, the well is checked for floating product using a clear bailer, a steel tape with water/oil paste, or an interface probe, during the initial sampling round. If floating product is measured during the initial sampling round or noted during subsequent sampling rounds, floating product measurements are continued.

After the water level and floating product measurements are complete, the monitoring well is purged until a minimum of three casing volumes of water are removed, water is relatively clear of sediment, and pH, conductivity, and temperature measurements of the water become relatively stable. If the well is purged dry, groundwater samples are collected after the water level in the well recovers to at least 80 percent of the original water column measured in the well prior to sampling, or following a maximum recovery period of two hours. The well is purged using a factory-sealed, disposable, polyethylene bailer, a four-inch diameter submersible Grundfos pump, a two-inch diameter ES-40 purge pump, or a peristaltic pump. The purge water is stored on-site in clean, 55-gallon drums.

A groundwater sample is collected from each monitoring well following re-equilibration of the well after purging. The groundwater sample is collected using a factory-sealed disposable, polyethylene bailer with a sampling port, or a factory-sealed Teflon bailer. A factory provided attachment designed for use with volatile organic compounds (VOCs) is attached to the polyethylene bailer sampling port when collecting samples to be analyzed for VOCs. The groundwater sample is transferred from the bailer into sample container(s) that are obtained directly from the analytical laboratory.

The sample container(s) is labeled with a self-adhesive tag. The following information is included on the tag:

- Project number
- Sample number
- Date and time sample is collected
- Initials of sample collector(s).



Individual log sheets are maintained throughout the sampling operations. The following information is recorded:

- Sample number
- Date and time well sampled and purged
- Sampling location
- Types of sampling equipment used
- Name of sampler(s)
- Volume of water purged.

Following collection of the groundwater sample, the sample is immediately stored on blue ice in an appropriate container. A chain-of-custody form is completed with the following information:

- Date the sample was collected
- Sample number and the number of containers
- Analyses required
- Remarks including preservatives added and any special conditions.

The original copy of the chain-of-custody form accompanies the sample containers to a California-certified laboratory. A copy is retained by BAI and placed in company files.

Sampling equipment including thermometers, pH electrodes, and conductivity probes are cleaned both before and after their use at the site. The following cleaning procedures are used:

- Wash with a potable water and detergent solution or other solutions deemed appropriate
- Rinse with potable water
- Double-rinse with organic-free or deionized water
- Package and seal equipment in plastic bags or other appropriate containers to prevent contact with solvents, dust, or other contaminants.

In addition, the pumps are cleaned by pumping a potable water and detergent solution and deionized water through the system. Cleaning solutions are contained on-site in clean 55-gallon drums.

Domestic and Irrigation Wells

Groundwater samples collected from domestic or irrigation wells are collected from the spigot that is the closest to the well. Prior to collecting the sample, the spigot is allowed to flow for at least 5 minutes to purge the well. The sample is then collected directly into laboratory-supplied containers, sealed, labeled, and stored on blue ice in an appropriate container, as described above. A chain-of-custody form is completed and submitted with the samples to the analytical laboratory.



APPENDIX B

Groundwater Sampling Field Forms and Logs



UST
Fund Site: Yes
 No

FIELD REPORT

PAGE 1 OF 7

JOB NO: 691 PROJECT: Groth Motors - 505 Santa Rosa Ave, Santa Rosa, CA
 INITIAL: CDS SUBJECT: GROUNDWATER SAMPLING
 DATE: 4-13-06 PROJECT PHASE NUMBER: 04
 VEHICLE USED: FORD F-150

Total Time: 8.50
 End. Mileage: 341
 Beg. Mileage: 180321

TOTAL MILEAGE: 20

TIME	DESCRIPTION OF WORK AND CONVERSATION RECORD
0549	LOAD EQUIPMENT AND SUPPLIES.
0631	TO SITE.
0650	ARRIVE AT SITE, SET-UP FOR GROUNDWATER SAMPLING. MEASURED TWO ROUNDS OF DISTANCE TO WATER AT WELLS MW-1, MW-2, MW-3, MW-4, MW-5, CMW-4 AND CMW-5 PERFORMED SAMPLING AT WELLS MW-1, MW-2, MW-3, MW-4 AND MW-5.
	STORED PURGEWATER IN DRUM LOCATED NORTHWEST OF THE SHOP BUILDING.
	CLOSED WELLS AND MONUMENTS.
	DECON SAMPLING EQUIPMENT.
	LOAD EQUIPMENT AND SUPPLIES.
	COMPLETED FIELD NOTES AND LOGGED SAMPLES ON CHAIN OF CUSTODY.
1347	LEAVE SITE
1415	ARRIVE AT OFFICE; SUBMITTED SAMPLES FOR ANALYSIS.
	UNLOAD EQUIPMENT AND SUPPLIES.
1445	FINISHED WITH WORK.
	DRUM COUNT:
	Water = 5 Devlpmt Water =
	Soil = Decon Water =



WATER LEVELS

SHEET 2 OF 7

PROJECT: Groth Motors - 505 Santa Rosa Avenue, Santa Rosa, CA

PROJECT NUMBER: 691

INSTRUMENT TYPE: ET (w/CP)

INITIALS: CDB

DATE: 4-13-06

**BRUNSWICK ASSOCIATES, INC.
ENVIRONMENTAL DIVISION**

WELL SAMPLING

SHEET 3 OF 7

PROJECT: Groth

PROJECT NUMBER: 691.01

WELL# MW-1 PRECIP. IN LAST 5 DAYS: ✓ WIND ✓ DATE: 4-13-06

STARTING TIME: 0932 FINISHING TIME: 1011

INITIALS: CDS

CALCULATION OF PURGE VOLUME

2" WELL DEPTH: 20.00 - D.T.W. 2.71 = H2O COLUMN: 17.29 CONV.= 8.65

4" WELL DEPTH: - D.T.W. = H2O COLUMN: CONV.:

THEREFORE TOTAL PURGE GALLONS EQUALS 2" WELL 9 4" WELL

GALLONS

FIELD MEASUREMENTS

<u>TIME</u>	<u>GALLONS REMOVED</u>	<u>pH</u>	<u>CONDUCTIVITY</u>	<u>TEMP.</u>	<u>OBSERVATIONS</u>
0943	1	6.85	537	19.2	CLOUDY Brown, NO ODOR, SANDY
0948	5	6.85	547	19.7	CLOUDY Brown, NO ODOR, SANDY
0954	9	6.88	554	19.8	CLOUDY Brown, NO ODOR, SANDY

SAMPLING: SAMPLE ANALYSIS: TPH-GAS EPA-8260

www.123RF.com

SAMPLE TIME: **1006** DID WELL GO DRY? **No**

**BRUNSWICK ASSOCIATES, INC.
ENVIRONMENTAL DIVISION**

WELL SAMPLING

SHEET 4 OF 7

PROJECT: Groth

PROJECT NUMBER: 691.01

WELL# MW-2 PRECIP. IN LAST 5 DAYS: ✓ WIND ✓ DATE: 4-13-06

STARTING TIME: 1104 FINISHING TIME: INITIALS: C P S

CALCULATION OF PURGE VOLUME

2" WELL DEPTH: - D.T.W. = H2O COLUMN: CONV.=

4" WELL DEPTH: - D.T.W. = H2O COLUMN: CONV.=

THEREFORE TOTAL PURGE GALLONS EQUALS 2" WELL 9 4" WELL

FIELD MEASUREMENTS

<u>TIME</u>	<u>GALLONS REMOVED</u>	<u>pH</u>	<u>CONDUCTIVITY</u>	<u>TEMP.</u>	<u>OBSERVATIONS</u>
1116	1	6.84	496	21.1	Cloudy Brown, no odor, sandy
1120	5	6.86	317	20.5	Cloudy Brown, no odor, sandy
1128	9	6.97	553	19.9	Cloudy Brown, no odor, sandy

SAMPLING: SAMPLE ANALYSIS: TPH-GAS EPA-8260

SAMPLE ANALYSIS: TPH-GAS EPA-8260

SAMPLE TIME: **1146** DID WELL GO DRY? **No**

**BRUNSWICK ASSOCIATES, INC.
ENVIRONMENTAL DIVISION**

WELL SAMPLING

SHEET 5 OF 7

PROJECT: Groth

PROJECT NUMBER: 691.01

WELL# MW-3 PRECIP. IN LAST 5 DAYS: ✓ WIND ✓

DATE: 4-13-06

STARTING TIME: 1012 FINISHING TIME: 1103

INITIALS: *CDG*

CALCULATION OF PURGE VOLUME

2" WELL DEPTH: 20.00 - D.T.W. 3.18 = H2O COLUMN: 16.82 CONV.: 8.41

4" WELL DEPTH: - D.T.W. = H2O COLUMN: CONV.=

THEREFORE TOTAL PURGE GALLONS EQUALS 2" WELL 8 4" WELL

GALLONS

FIELD MEASUREMENTS

<u>TIME</u>	<u>GALLONS REMOVED</u>	<u>pH</u>	<u>CONDUCTIVITY</u>	<u>TEMP.</u>	<u>OBSERVATIONS</u>
1031	1	6.96	403	19.6	TURBID GREEN-BROWN, PHOSPHOR, SANDY
1036	4	6.98	403	19.9	TURBID GREEN-BROWN, PHOSPHOR, SANDY
1042	8	6.99	406	19.9	TURBID GREEN-BROWN, PHOSPHOR, SHEEN, SANDY

SAMPLING: SAMPLE ANALYSIS: TPH-GAS EPA-8260

SAMPLE TIME: **1052** DID WELL GO DRY? **NO**

WELL SAMPLING

SHEET 6 OF 7

PROJECT: Groth Motors - 505 Santa Rosa Avenue, Santa Rosa, CA

PROJECT NUMBER: 691

WELL # MW-4 PRECIP. IN LAST 5 DAYS: ✓ WIND ✓

DATE: 4-13-06

STARTING TIME: 0854 FINISHING TIME: 0931

INITIALS: LGS

CALCULATION OF PURGE VOLUME

2" WELL DEPTH: - D.T.W. = H2O COLUMN: X 0.5 =

GALLONS

4" WELL DEPTH: - D.T.W. = H2O COLUMN: X 2.0 =

THEREFORE TOTAL PURGE GALLONS EQUALS

FIELD MEASUREMENTS

TIME	GALLONS REMOVED	pH	CONDUCTIVITY	TEMP.	OBSERVATIONS
0858	1	6.97	532	16.7	Cloudy Brown, NO ODOR, SANDY
0904	3	6.97	527	17.7	Turbo Green-Brown, NO ODOR, SANDY
0908	6	6.97	514	18.2	Turbo Green-Brown, NO ODOR, SANDY

SAMPLING:

SAMPLE ANALYSIS: TPH-Gas, 8260B (BTEX, pet oxy & Pb scav)

SAMPLE TIME:

DID WELL GO DRY?

WATER LEVELS:		NOTES:
TIME	D.T.W.	
0924	9.74	

WELL SAMPLING

SHEET 7 OF 7

PROJECT: Groth Motors - 505 Santa Rosa Avenue, Santa Rosa, CA

PROJECT NUMBER: 691

WELL # MW-5 PRECIP. IN LAST 5 DAYS: ✓ WIND ✓ DATE: 4-13-06

STARTING TIME: 0751 FINISHING TIME: 0853 INITIALS: CDS

CALCULATION OF PURGE VOLUME

2" WELL DEPTH: - D.T.W. = H₂O COLUMN: X 0.5 =

GALLONS

4" WELL DEPTH: - D.T.W. = H₂O COLUMN: X 2.0 =

THEREFORE TOTAL PURGE GALLONS EQUALS

FIELD MEASUREMENTS

TIME	GALLONS REMOVED	pH	CONDUCTIVITY	TEMP.	OBSERVATIONS
0811	1	6.79	752	16.3	TURBIDGREEN-BROWN, NO ODOUR, SANDY
			7		
0815	3	6.90	731	16.7	TURBIDGREEN-Brown, NO ODOUR, SANDY,
					SHEEN
0824	6	6.82	6.92	17.4	TURBIDGREEN-Brown, FINE ODOUR, SHEEN,
					SANDY

SAMPLING:

SAMPLE ANALYSIS: TPH-Gas, 8260B (BTEX, pet oxy & Pb scav)

SAMPLE TIME:

DID WELL GO DRY?

No

WATER LEVELS:		NOTES:
TIME	D.T.W.	
0847	5.35	



BACE ENVIRONMENTAL

APPENDIX C

Analytical Laboratory Report



Laboratory Report Project Overview

EDF 1.2a

Laboratory: Bace Analytical, Windsor, CA
Lab Report Number: 4790
Project Name: 505 SANTA ROSA AVE
Work Order Number: 691.070
Control Sheet Number: NA

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anicode	Exmcode	Logdate	Extdate	Anadate	Lablotct	Run Sub
4790	MW-1	4790-1	W	CS	8260FAB	SW5030B	04/13/200	04/19/200	20060419	13	
4790	MW-1	4790-1	W	CS	CATPH-G	SW5030B	04/13/200	04/19/200	04/19/2006	6	8
4790	MW-2	4790-2	W	CS	8260FAB	SW5030B	04/13/200	04/19/200	20060419	14	
4790	MW-2	4790-2	W	CS	CATPH-G	SW5030B	04/13/200	04/19/200	04/19/2006	6	6
4790	MW-3	4790-3	W	CS	8260FAB	SW5030B	04/13/200	04/19/200	04/19/2006	6	11
4790	MW-3	4790-3	W	CS	CATPH-G	SW5030B	04/13/200	04/19/200	04/19/2006	6	6
4790	MW-4	4790-4	W	CS	8260FAB	SW5030B	04/13/200	04/19/200	04/19/2006	6	12
4790	MW-4	4790-4	W	CS	CATPH-G	SW5030B	04/13/200	04/19/200	04/19/2006	6	6
4790	MW-5	4790-5	W	CS	8260FAB	SW5030B	04/13/200	04/19/200	20060419	8	
4790	MW-5	4790-5	W	CS	CATPH-G	SW5030B	04/13/200	04/19/200	04/19/2006	6	13
4790	MW-5	4790-5	W	LB1	8260FAB	SW5030B	04/13/200	04/19/200	20060419	6	16
4790MB			W	LB1	CATPH-G	SW5030B	/ /	04/19/200	20060419	2	
4790MB			W	MS1	8260FAB	SW5030B	/ /	04/19/200	04/19/2006	1	
4790MS			W	MS1	CATPH-G	SW5030B	/ /	04/19/200	20060419	9	
4790MS			W	SD1	CATPH-G	SW5030B	/ /	04/19/200	04/19/2006	6	10
4791SD			W	SD1	8260FAB	SW5030B	/ /	04/19/200	20060419	10	
4791SD			W				6	6	6	6	

Bace Analytical, Windsor, CA

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Project Name:	505 SANTA ROSA AVE	Analysis:	VOCs by GC/MS Fuel Additives Plus BTEX				
Project No:	691.070	Method:	8260FAB				
		Prep Meth:	SW5030B				
Field ID:	MW-1	Lab Samp ID:	4790-1				
Descr/Location:	MW-1	Rec'd Date:	04/13/2006				
Sample Date:	04/13/2006	Prep Date:	04/19/2006				
Sample Time:	1006	Analysis Date:	04/19/2006				
Matrix:	Water	QC Batch:	20060419				
Basis:	Not Filtered	Notes:					
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil	
Methyl-tert-butyl ether (MTBE)	0.38	1.0	PQL	ND	UG/L	1	
Ethyl tert-butyl ether (ETBE)	0.30	1.0	PQL	ND	UG/L	1	
tert-Amyl methyl ether (TAME)	0.26	1.0	PQL	ND	UG/L	1	
Di-isopropyl ether (DIPE)	0.37	1.0	PQL	ND	UG/L	1	
tert-Butyl alcohol (TBA)	2.4	10.	PQL	ND	UG/L	1	
1,2-Dichloroethane	0.30	0.50	PQL	ND	UG/L	1	
1,2-Dibromoethane	0.30	0.50	PQL	ND	UG/L	1	
Benzene	0.27	0.50	PQL	ND	UG/L	1	
Toluene	0.25	0.50	PQL	ND	UG/L	1	
Ethylbenzene	0.25	0.50	PQL	ND	UG/L	1	
Xylenes	0.25	0.50	PQL	ND	UG/L	1	
SURROGATE AND INTERNAL STANDARD RECOVERIES:							
4-Bromofluorobenzene	86-118	SLSA		102%			1
Toluene-d8	88-110	SLSA		100%			1
Dibromofluoromethane	86-115	SLSA		101%			1

Approved by:

Wesley H. Potts

Date:

4/26/06

Bace Analytical, Windsor, CA

Lab Report No.: 4790 Date: 04/26/2006

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Project Name:	505 SANTA ROSA AVE	Analysis:	VOCs by GC/MS Fuel Additives Plus BTEX			
Project No:	691.070	Method:	8260FAB			
		Prep Meth:	SW5030B			
Field ID:	MW-2	Lab Samp ID:	4790-2			
Descr/Location:	MW-2	Rec'd Date:	04/13/2006			
Sample Date:	04/13/2006	Prep Date:	04/19/2006			
Sample Time:	1146	Analysis Date:	04/19/2006			
Matrix:	Water	QC Batch:	20060419			
Basis:	Not Filtered	Notes:				
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Methyl-tert-butyl ether (MTBE)	7.6	20.	PQL	ND	UG/L	20
Ethyl tert-butyl ether (ETBE)	6.0	20.	PQL	ND	UG/L	20
tert-Amyl methyl ether (TAME)	5.2	20.	PQL	ND	UG/L	20
Di-isopropyl ether (DIPE)	7.4	20.	PQL	ND	UG/L	20
tert-Butyl alcohol (TBA)	48.	200.	PQL	ND	UG/L	20
1,2-Dichloroethane	6.0	10.	PQL	ND	UG/L	20
1,2-Dibromoethane	6.0	10.	PQL	ND	UG/L	20
Benzene	5.4	10.	PQL	13.6	UG/L	20
Toluene	5.0	10.	PQL	ND	UG/L	20
Ethylbenzene	5.0	10.	PQL	96.2	UG/L	20
Xylenes	5.0	10.	PQL	699.	UG/L	20
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene		86-118	SLSA	99%		1
Toluene-d8		88-110	SLSA	100%		1
Dibromofluoromethane		86-115	SLSA	101%		1

Approved by:

Wesley H. Ratz

Date:

4/26/06

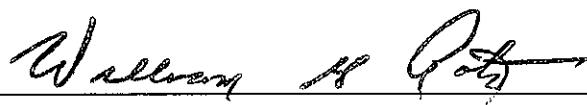
Bace Analytical, Windsor, CA

Lab Report No.: 4790 Date: 04/26/2006

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Project Name:	505 SANTA ROSA AVE	Analysis:	VOCs by GC/MS Fuel Additives Plus BTEX				
Project No:	691.070	Method:	8260FAB				
		Prep Meth:	SW5030B				
Field ID:	MW-3	Lab Samp ID:	4790-3				
Descr/Location:	MW-3	Rec'd Date:	04/13/2006				
Sample Date:	04/13/2006	Prep Date:	04/19/2006				
Sample Time:	1052	Analysis Date:	04/19/2006				
Matrix:	Water	QC Batch:	20060419				
Basis:	Not Filtered	Notes:					
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil	
Methyl-tert-butyl ether (MTBE)	3.8	10.	PQL	ND	UG/L	10	
Ethyl tert-butyl ether (ETBE)	3.0	10.	PQL	ND	UG/L	10	
tert-Amyl methyl ether (TAME)	2.6	10.	PQL	ND	UG/L	10	
Di-isopropyl ether (DIPE)	3.7	10.	PQL	ND	UG/L	10	
tert-Butyl alcohol (TBA)	24.	100.	PQL	ND	UG/L	10	
1,2-Dichloroethane	3.0	5.0	PQL	ND	UG/L	10	
1,2-Dibromoethane	3.0	5.0	PQL	ND	UG/L	10	
Benzene	2.7	5.0	PQL	ND	UG/L	10	
Toluene	2.5	5.0	PQL	ND	UG/L	10	
Ethylbenzene	2.5	5.0	PQL	ND	UG/L	10	
Xylenes	2.5	5.0	PQL	ND	UG/L	10	
SURROGATE AND INTERNAL STANDARD RECOVERIES:							
4-Bromofluorobenzene		86-118	SLSA		102%		1
Toluene-d8		88-110	SLSA		97%		1
Dibromofluoromethane		86-115	SLSA		99%		1

Approved by:



Date: 4/26/06

Project Name:	505 SANTA ROSA AVE	Analysis:	VOCs by GC/MS Fuel Additives Plus BTEX			
Project No:	691.070	Method:	8260FAB			
		Prep Meth:	SW5030B			
Field ID:	MW-4	Lab Samp ID:	4790-4			
Descr/Location:	MW-4	Rec'd Date:	04/13/2006			
Sample Date:	04/13/2006	Prep Date:	04/19/2006			
Sample Time:	0921	Analysis Date:	04/19/2006			
Matrix:	Water	QC Batch:	20060419			
Basis:	Not Filtered	Notes:				
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Methyl-tert-butyl ether (MTBE)	0.38	1.0	PQL	ND	UG/L	1
Ethyl tert-butyl ether (ETBE)	0.30	1.0	PQL	ND	UG/L	1
tert-Amyl methyl ether (TAME)	0.26	1.0	PQL	ND	UG/L	1
Di-isopropyl ether (DIPE)	0.37	1.0	PQL	ND	UG/L	1
tert-Butyl alcohol (TBA)	2.4	10.	PQL	ND	UG/L	1
1,2-Dichloroethane	0.30	0.50	PQL	ND	UG/L	1
1,2-Dibromoethane	0.30	0.50	PQL	ND	UG/L	1
Benzene	0.27	0.50	PQL	ND	UG/L	1
Toluene	0.25	0.50	PQL	ND	UG/L	1
Ethylbenzene	0.25	0.50	PQL	ND	UG/L	1
Xylenes	0.25	0.50	PQL	ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene		86-118	SLSA	101%		1
Toluene-d8		88-110	SLSA	100%		1
Dibromofluoromethane		86-115	SLSA	100%		1

Approved by:



Date:

4/26/06

Project Name:	505 SANTA ROSA AVE	Analysis:	VOCs by GC/MS Fuel Additives Plus BTEX			
Project No:	691.070	Method:	8260FAB			
		Prep Meth:	SW5030B			
Field ID:	MW-5	Lab Samp ID:	4790-5			
Descr/Location:	MW-5	Rec'd Date:	04/13/2006			
Sample Date:	04/13/2006	Prep Date:	04/19/2006			
Sample Time:	0843	Analysis Date:	04/19/2006			
Matrix:	Water	QC Batch:	20060419			
Basis:	Not Filtered	Notes:				
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Methyl-tert-butyl ether (MTBE)	7.6	20.	PQL	ND	UG/L	20
Ethyl tert-butyl ether (ETBE)	6.0	20.	PQL	ND	UG/L	20
tert-Amyl methyl ether (TAME)	5.2	20.	PQL	ND	UG/L	20
Di-isopropyl ether (DIPE)	7.4	20.	PQL	ND	UG/L	20
tert-Butyl alcohol (TBA)	48.	200.	PQL	ND	UG/L	20
1,2-Dichloroethane	6.0	10.	PQL	ND	UG/L	20
1,2-Dibromoethane	6.0	10.	PQL	ND	UG/L	20
Benzene	5.4	10.	PQL	263.	UG/L	20
Toluene	5.0	10.	PQL	ND	UG/L	20
Ethylbenzene	5.0	10.	PQL	842	UG/L	20
Xylenes	5.0	10.	PQL	146.	UG/L	20
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene		86-118	SLSA	100%		1
Toluene-d8		88-110	SLSA	100%		1
Dibromofluoromethane		86-115	SLSA	100%		1

Approved by:

William H. Ratz

Date:

4/26/06

Bace Analytical, Windsor, CA

Lab Report No.: 4790 Date: 04/26/2006

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Project Name:	505 SANTA ROSA AVE	Analysis:	CA LUFT Method for Gasoline Range Organics			
Project No:	691.070	Method:	CATPH-G			
		Prep Meth:	SW5030B			
Field ID:	MW-1	Lab Samp ID:	4790-1			
Descr/Location:	MW-1	Rec'd Date:	04/13/2006			
Sample Date:	04/13/2006	Prep Date:	04/19/2006			
Sample Time:	1006	Analysis Date:	04/19/2006			
Matrix:	Water	QC Batch:	04192006			
Basis:	Not Filtered	Notes:				
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Gasoline Range Organics (C5-C12)	0.020	0.050 PQL		ND	MG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene	75-125	SLSA		89%		1

Approved by:

*Wesley & Patti*Date: 4/26/06

Bace Analytical, Windsor, CA

Lab Report No.: 4790 Date: 04/26/2006

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Project Name:	505 SANTA ROSA AVE	Analysis:	CA LUFT Method for Gasoline Range Organics			
Project No:	691.070	Method:	CATPH-G			
		Prep Meth:	SW5030B			
Field ID:	MW-2	Lab Samp ID:	4790-2			
Descr/Location:	MW-2	Rec'd Date:	04/13/2006			
Sample Date:	04/13/2006	Prep Date:	04/19/2006			
Sample Time:	1146	Analysis Date:	04/19/2006			
Matrix:	Water	QC Batch:	04192006			
Basis:	Not Filtered	Notes:				
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Gasoline Range Organics (C5-C12)	0.200	0.500 PQL		24	MG/L	10
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene		75-125	SLSA	93%		1

Approved by:

*Wesley S. Petty*Date: 4/26/06

Bace Analytical, Windsor, CA

Lab Report No.: 4790 Date: 04/26/2006

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Project Name:	505 SANTA ROSA AVE	Analysis:	CA LUFT Method for Gasoline Range Organics			
Project No:	691.070	Method:	CATPH-G			
		Prep Meth:	SW5030B			
Field ID:	MW-3	Lab Samp ID:	4790-3			
Descr/Location:	MW-3	Rec'd Date:	04/13/2006			
Sample Date:	04/13/2006	Prep Date:	04/19/2006			
Sample Time:	1052	Analysis Date:	04/19/2006			
Matrix:	Water	QC Batch:	04192006			
Basis:	Not Filtered	Notes:				
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Gasoline Range Organics (C5-C12)	0.100	0.250 PQL		0.78	MG/L	5
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene		75-125 SLSA		108%		1

Approved by:

*William H. Potts*Date: 4/26/06

Bace Analytical, Windsor, CA

Lab Report No.: 4790 Date: 04/26/2006

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Project Name:	505 SANTA ROSA AVE	Analysis:	CA LUFT Method for Gasoline Range Organics			
Project No:	691.070	Method:	CATPH-G			
		Prep Meth:	SW5030B			
Field ID:	MW-4	Lab Samp ID:	4790-4			
Descr/Location:	MW-4	Rec'd Date:	04/13/2006			
Sample Date:	04/13/2006	Prep Date:	04/19/2006			
Sample Time:	0921	Analysis Date:	04/19/2006			
Matrix:	Water	QC Batch:	04192006			
Basis:	Not Filtered	Notes:				
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Gasoline Range Organics (C5-C12)	0.020	0.050	PQL	ND	MG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene	75-125	SLSA		86%		1

Approved by:

Wesley & Roto

Date:

4/26/06

Bace Analytical, Windsor, CA

Lab Report No.: 4790 Date: 04/26/2006

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Project Name:	505 SANTA ROSA AVE	Analysis:	CA LUFT Method for Gasoline Range Organics			
Project No:	691.070	Method:	CATPH-G			
		Prep Meth:	SW5030B			
Field ID:	MW-5	Lab Samp ID:	4790-5			
Descr/Location:	MW-5	Rec'd Date:	04/13/2006			
Sample Date:	04/13/2006	Prep Date:	04/19/2006			
Sample Time:	0843	Analysis Date:	04/19/2006			
Matrix:	Water	QC Batch:	04192006			
Basis:	Not Filtered	Notes:				
Analyte	Def Limit	Rep Limit	Note	Result	Units	Pvc Dil
Gasoline Range Organics (C5-C12)	0.200	0.500 PQL		3.9	MG/L	10
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene 75-125 SLSA						90%
						1

Approved by:

William H. Potts

Date:

4/26/06

QA/QC Report
Method Blank Summary

Bace Analytical, Windsor, CA

Lab Report No.: 4790 Date: 04/26/2006

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QC Batch:	04192006	Analysis:	CA LUFT Method for Gasoline Range				
Matrix:	Water	Method:	CATPH-G				
Lab Samp ID:	4790MB	Prep Meth:	SW5030B				
Analysis Date:	04/19/2006	Prep Date:	04/19/2006				
Basis:	Not Filtered	Notes:					
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil	
Gasoline Range Organics (C5-C12)	0.020	0.050	PQL	ND	MG/L	1	
SURROGATE AND INTERNAL STANDARD RECOVERIES:							1
4-Bromofluorobenzene	75-125	SLSA		90%			

QA/QC Report
Matrix Spike/Duplicate Matrix Spike Summary

Bace Analytical, Windsor, CA

Lab Report No.: 4790 Date: 04/26/2006

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QC Batch: 04192006
Matrix: Water
Lab Samp ID: 4790MS
Basis: Not Filtered

Project Name: 505 SANTA ROSA AVE
Project No.: 691.070
Field ID: MW-1
Lab Ref ID: 4790-1

Analyte	Analysis Method	Spike Level DMS		Sample Result		Spike Result DMS		Units	% Recoveries MS DMS RPD	% Rec	Acceptance Criteria RPD
		MS	DMS	Result	MS	DMS					
Gasoline Range Organics (C5-C12)	CATPH-G	0.450	0.450	ND	0.412	0.477	MG/L	91.6	106	15	135-65 MSA 25MSP
4-Bromofluorobenzene	CATPH-G	100.	100.	89.	93.	93.	PERCENT	93.0	93.0	0.00	125-75 SLSA 20SLSP

QA/QC Report
Method Blank Summary

Bace Analytical, Windsor, CA

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QC Batch:	20060419	Analysis:	VOCs by GC/MS Fuel Additives Plus BTEX			
Matrix:	Water	Method:	8260FAB			
Lab Samp ID:	4790MB	Prep Meth:	SW5030B			
Analysis Date:	04/19/2006	Prep Date:	04/19/2006			
Basis:	Not Filtered	Notes:				
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Methyl-tert-butyl ether (MTBE)	0.38	1.0	PQL	ND	UG/L	1
Ethyl tert-butyl ether (ETBE)	0.30	1.0	PQL	ND	UG/L	1
tert-Amyl methyl ether (TAME)	0.26	1.0	PQL	ND	UG/L	1
Di-isopropyl ether (DIPE)	0.37	1.0	PQL	ND	UG/L	1
tert-Butyl alcohol (TBA)	2.4	10.	PQL	ND	UG/L	1
1,2-Dichloroethane	0.30	0.50	PQL	ND	UG/L	1
1,2-Dibromoethane	0.30	0.50	PQL	ND	UG/L	1
Benzene	0.27	0.50	PQL	ND	UG/L	1
Toluene	0.25	0.50	PQL	ND	UG/L	1
Ethylbenzene	0.25	0.50	PQL	ND	UG/L	1
Xylenes	0.25	0.50	PQL	ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene	86-118	SLSA		101%		1
Toluene-d8	88-110	SLSA		100%		1
Dibromofluoromethane	86-115	SLSA		100%		1

QA/QC Report
Matrix Spike/Duplicate Matrix Spike Summary

Bace Analytical, Windsor, CA

Lab Report No.: 4790 Date: 04/26/2006

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QC Batch: 20060419
 Matrix: Water
 Lab Samp ID: 4790MS
 Basis: Not Filtered

Project Name: 505 SANTA ROSA AVE
 Project No.: 691.070
 Field ID: MW-4
 Lab Ref ID: 4790-4

Analyte	Analysis Method	Spike Level MS	Sample Result	Spike Result MS	Units	% Recoveries		Acceptance Criteria	
						MS	DMS	RPD	
1,2-Dibromoethane	8260FAB	10.0	10.0	ND	10.7	9.81	UG/L	107	98.1 8.7 MSA 20MSP
1,2-Dichloroethane	8260FAB	10.0	10.0	ND	11.0	10.6	UG/L	110	106 3.7 130-70 MSA 20MSP
Benzene	8260FAB	10.0	10.0	ND	11.1	10.8	UG/L	111	108 2.7 127-76 MSA 20MSP
Di-isopropyl ether (DIPE)	8260FAB	10.0	10.0	ND	8.73	9.34	UG/L	87.3	93.4 6.8 130-70 MSA 20MSP
Ethyl tert-butyl ether (ETBE)	8260FAB	10.0	10.0	ND	8.78	9.15	UG/L	87.8	91.5 4.1 130-70 MSA 20MSP
Ethylbenzene	8260FAB	10.0	10.0	ND	11.0	10.7	UG/L	110	107 2.8 130-70 MSA 20MSP
Methyl-tert-butyl ether (MTBE)	8260FAB	10.0	10.0	ND	8.53	8.98	UG/L	85.3	89.8 5.1 130-70 MSA 20MSP
Toluene	8260FAB	10.0	10.0	ND	11.1	10.7	UG/L	111	107 3.7 125-76 MSA 20MSP
Xylenes	8260FAB	30.0	30.0	ND	33.7	32.2	UG/L	112	107 4.6 130-70 MSA 20MSP
tert-Amyl methyl ether (TAME)	8260FAB	10.0	10.0	ND	8.42	8.74	UG/L	84.2	87.4 3.7 130-70 MSA 20MSP
tert-Butyl alcohol (TBA)	8260FAB	50.0	50.0	ND	35.1	35.8	UG/L	70.2	71.6 2.0 140-60 MSA 25MSP
4-Bromofluorobenzene	8260FAB	100.	100.	101.	99.	98.	PERCENT	99.0	98.0 1.0 118-86 SLSA 20SLSP
Dibromofluoromethane	8260FAB	100.	100.	100.	99.	100.	PERCENT	99.0	100 1.0 115-86 SLSA 20SLSP
Toluene-d8	8260FAB	100.	100.	100.	99.	99.	PERCENT	99.0	99.0 0.00 110-88 SLSA 20SLSP

Chain-of-Custody Form

Project #	Project Name	Analysis										
691.010	UROT MOTORS 205 SANTA ROSA AVE. SANTA ROSA, CA.											
L.P. No.	Sampler's Signature	No. of Containers										
	<i>Chris Scott</i>	TPH-ATs										
		EPAs-266B										
		OXIDIZABLES										
		LEAD										
		CHLORINERS										
		SCRENNERS										
		BTEX										
Date Sampled	Sample I.D.	Time (24 Hour)	Sample Type									
4/13/06	MW-1	1006	WATER	4	X	X	X	X	X	X	X	X
	MW-2	1146		1	X	X	X	X	X	X	X	X
	MW-3	1052			X	X	X	X	X	X	X	X
	MW-4	0921			X	X	X	X	X	X	X	X
	MW-5	0843	↓		X	X	X	X	X	X	X	X
Preservation: A - HCl; B - H ₂ SO ₄ ; C - NaOH; D - HNO ₃ ; E - Ice; F - (specify)												
Remarks: 2-WEEK TAT												
Laboratory: LENNEX ANALYTICAL												
Relinquished by:	<i>Chris Scott</i>	Date/Time	Received by:	<i>Chris Scott</i>								
(signed)		4/13/06 1425	(signature)									
Relinquished by:	<i>Chris Scott</i>	Date/Time	Received by:	<i>Chris Scott</i>								
(signed)			(signature)									
Relinquished by:	<i>Chris Scott</i>	Date/Time	Received for Laboratory by:	<i>Steve Silva</i>								
(signed)			(signature)									
Brunsing Associates, Inc.												
P.O. Box 588												
5803 Skylane Blvd., Suite A												
Windsor, CA 95492												
(707) 838-3027												
(707) 838-4420 fax												

APPENDIX D

Clearwater Group Environmental Services Data



updated on 3/15/05

Explanation:

DTB = Depth to Bottom

DTW = Depth to Water

ST = Saturated Thickness (DTB-DIW) must be > 1 foot

CV = Casing Volume (ST x cf)

PV = Purge Volume (standard 3 x CV, well development 10 x CV).

SPL = Thickness of Separate Phase Liquid

Conversion Factors (cf)

2-inch diameter well cf = 0.16 gal/ft³

4-inch diameter well cf = 0.65 gal/ft

6-inch diameter well of = 1.44 gal.fl.



Report Number: 49510

Date: 4/19/2006

Project Name: 421 SANTA ROSA

Project Number: AB021H

Sample: MW-9

Matrix: Water

Lab Number: 49510-01

Sample Date: 4/13/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	4/15/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	4/15/2006
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Toluene - d8 (Surrogate)	101		% Recovery	EPA 8260B	4/15/2006
4-Bromofluorobenzene (Surrogate)	98.0		% Recovery	EPA 8260B	4/15/2006
Dibromofluoromethane (Surrogate)	99.4		% Recovery	EPA 8260B	4/15/2006
1,2-Dichloroethane-d4 (Surrogate)	100		% Recovery	EPA 8260B	4/15/2006

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 49510

Date : 4/19/2006

Project Name : 421 SANTA ROSA

Project Number : AB021H

Sample : MW-8

Matrix : Water

Lab Number : 49510-02

Sample Date : 4/13/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Methyl-t-butyl ether (MTBE)	3.8	0.50	ug/L	EPA 8260B	4/15/2006
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Tert-amyI methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	4/15/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	4/15/2006
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Toluene - d8 (Surrogate)	101		% Recovery	EPA 8260B	4/15/2006
4-Bromofluorobenzene (Surrogate)	101		% Recovery	EPA 8260B	4/15/2006
Dibromofluoromethane (Surrogate)	102		% Recovery	EPA 8260B	4/15/2006
1,2-Dichloroethane-d4 (Surrogate)	103		% Recovery	EPA 8260B	4/15/2006

Approved By: Joe Kiff

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Report Number: 49510

Date: 4/19/2006

Project Name: 421 SANTA ROSA

Project Number: AB021H

Sample: MW-10

Matrix: Water

Lab Number: 49510-03

Sample Date: 4/13/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Methyl-t-butyl ether (MTBE)	3.8	0.50	ug/L	EPA 8260B	4/15/2006
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	4/15/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	4/15/2006
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	4/15/2006
4-Bromofluorobenzene (Surr)	106		% Recovery	EPA 8260B	4/15/2006
Dibromofluoromethane (Surr)	101		% Recovery	EPA 8260B	4/15/2006
1,2-Dichloroethane-d4 (Surr)	98.8		% Recovery	EPA 8260B	4/15/2006

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 49510

Date : 4/19/2006

Project Name : 421 SANTA ROSA

Project Number : AB021H

Sample : MW-6

Matrix : Water

Lab Number : 49510-04

Sample Date 4/13/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	4/15/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	4/15/2006
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Toluene - d8 (Surrogate)	101		% Recovery	EPA 8260B	4/15/2006
4-Bromofluorobenzene (Surrogate)	100		% Recovery	EPA 8260B	4/15/2006
Dibromofluoromethane (Surrogate)	99.6		% Recovery	EPA 8260B	4/15/2006
1,2-Dichloroethane-d4 (Surrogate)	101		% Recovery	EPA 8260B	4/15/2006

Approved By: Joel Kiff



Report Number : 49510

Date : 4/19/2006

Project Name : 421 SANTA ROSA

Project Number : AB021H

Sample : MW-11

Matrix : Water

Lab Number : 49510-05

Sample Date : 4/13/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	4/17/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	4/17/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/17/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	4/17/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	4/17/2006
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	4/17/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	4/17/2006
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	4/17/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	4/17/2006
TPH as Gasoline	300	50	ug/L	EPA 8260B	4/17/2006
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	4/17/2006
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	4/17/2006
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	4/17/2006
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	4/17/2006
Dibromofluoromethane (Surr)	100		% Recovery	EPA 8260B	4/17/2006
1,2-Dichloroethane-d4 (Surr)	99.0		% Recovery	EPA 8260B	4/17/2006

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Report Number : 49510

Date : 4/19/2006

Project Name : 421 SANTA ROSA

Project Number : AB021H

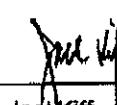
Sample : MW-7

Matrix : Water

Lab Number : 49510-06

Sample Date : 4/13/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.55	0.50	ug/L	EPA 8260B	4/15/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Methyl-t-butyl ether (MTBE)	0.58	0.50	ug/L	EPA 8260B	4/15/2006
Diisopropyl ether (Dipe)	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	4/15/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	4/15/2006
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Toluene - d8 (Surrogate)	101		% Recovery	EPA 8260B	4/15/2006
4-Bromofluorobenzene (Surrogate)	101		% Recovery	EPA 8260B	4/15/2006
Dibromofluoromethane (Surrogate)	104		% Recovery	EPA 8260B	4/15/2006
1,2-Dichloroethane-d4 (Surrogate)	100		% Recovery	EPA 8260B	4/15/2006

Approved By:  Joel Kiff



Report Number : 49510

Date : 4/19/2006

Project Name : 421 SANTA ROSA

Project Number : AB021H

Sample : MW-2A

Matrix : Water

Lab Number : 49510-07

Sample Date : 4/13/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	4/15/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	4/15/2006
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	4/15/2006
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	4/15/2006
Dibromofluoromethane (Surr)	101		% Recovery	EPA 8260B	4/15/2006
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	4/15/2006

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Report Number : 49510

Date : 4/19/2006

Project Name : 421 SANTA ROSA

Project Number : AB021H

Sample : MW-4

Matrix : Water

Lab Number : 49510-08

Sample Date : 4/13/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	5.8	0.50	ug/L	EPA 8260B	4/17/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	4/17/2006
Ethylbenzene	0.70	0.50	ug/L	EPA 8260B	4/17/2006
Total Xylenes	0.82	0.50	ug/L	EPA 8260B	4/17/2006
Methyl-t-butyl ether (MTBE)	0.96	0.50	ug/L	EPA 8260B	4/17/2006
Diisopropyl ether (DIPE)	1.2	0.50	ug/L	EPA 8260B	4/17/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	4/17/2006
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	4/17/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	4/17/2006
TPH as Gasoline	440	50	ug/L	EPA 8260B	4/17/2006
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	4/17/2006
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	4/17/2006
Toluene - d8 (Surrogate)	101		% Recovery	EPA 8260B	4/17/2006
4-Bromofluorobenzene (Surrogate)	99.2		% Recovery	EPA 8260B	4/17/2006
Dibromofluoromethane (Surrogate)	101		% Recovery	EPA 8260B	4/17/2006
1,2-Dichloroethane-d4 (Surrogate)	100		% Recovery	EPA 8260B	4/17/2006

Approved By: Joel Kiff

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Report Number: 49510

Date: 4/19/2006

Project Name: 421 SANTA ROSA

Project Number: AB021H

Sample: MW-5

Matrix: Water

Lab Number: 49510-09

Sample Date: 4/13/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	1.6	0.50	ug/L	EPA 8260B	4/15/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Ethylbenzene	1.2	0.50	ug/L	EPA 8260B	4/15/2006
Total Xylenes	1.1	0.50	ug/L	EPA 8260B	4/15/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	4/15/2006
TPH as Gasoline	290	50	ug/L	EPA 8260B	4/15/2006
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	4/15/2006
Toluene - d8 (Surrogate)	100		% Recovery	EPA 8260B	4/15/2006
4-Bromofluorobenzene (Surrogate)	99.2		% Recovery	EPA 8260B	4/15/2006
Dibromofluoromethane (Surrogate)	100		% Recovery	EPA 8260B	4/15/2006
1,2-Dichloroethane-d4 (Surrogate)	98.7		% Recovery	EPA 8260B	4/15/2006

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Report Number: 49510

Date: 4/19/2006

Project Name: 421 SANTA ROSA

Project Number: AB021H

Sample: MW-12

Matrix: Water

Lab Number: 49510-10

Sample Date: 4/13/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	1800	4.0	ug/L	EPA 8260B	4/18/2006
Toluene	92	4.0	ug/L	EPA 8260B	4/18/2006
Ethylbenzene	1400	4.0	ug/L	EPA 8260B	4/18/2006
Total Xylenes	1000	4.0	ug/L	EPA 8260B	4/18/2006
Methyl-t-butyl ether (MTBE)	< 4.0	4.0	ug/L	EPA 8260B	4/18/2006
Diisopropyl ether (DIPE)	< 4.0	4.0	ug/L	EPA 8260B	4/18/2006
Ethyl-t-butyl ether (ETBE)	< 4.0	4.0	ug/L	EPA 8260B	4/18/2006
Tert-amyl methyl ether (TAME)	< 4.0	4.0	ug/L	EPA 8260B	4/18/2006
Tert-Butanol	< 20	20	ug/L	EPA 8260B	4/18/2006
TPH as Gasoline	19000	400	ug/L	EPA 8260B	4/18/2006
1,2-Dichloroethane	< 4.0	4.0	ug/L	EPA 8260B	4/18/2006
1,2-Dibromoethane	< 4.0	4.0	ug/L	EPA 8260B	4/18/2006
Toluene - d8 (Surrogate)	98.1		% Recovery	EPA 8260B	4/18/2006
4-Bromofluorobenzene (Surrogate)	102		% Recovery	EPA 8260B	4/18/2006
Dibromofluoromethane (Surrogate)	101		% Recovery	EPA 8260B	4/18/2006
1,2-Dichloroethane-d4 (Surrogate)	98.7		% Recovery	EPA 8260B	4/18/2006

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Report Number: 49510

Date: 4/19/2006

Project Name: 421 SANTA ROSA

Project Number: AB021H

Sample: MW-1A

Matrix: Water

Lab Number: 49510-11

Sample Date: 4/13/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	270	1.0	ug/L	EPA 8260B	4/18/2006
Toluene	31	1.0	ug/L	EPA 8260B	4/18/2006
Ethylbenzene	1500	5.0	ug/L	EPA 8260B	4/15/2006
Total Xylenes	1700	5.0	ug/L	EPA 8260B	4/15/2006
Methyl-t-butyl ether (MTBE)	< 1.0	1.0	ug/L	EPA 8260B	4/18/2006
Diisopropyl ether (DIPE)	< 1.0	1.0	ug/L	EPA 8260B	4/18/2006
Ethyl-t-butyl ether (ETBE)	< 1.0	1.0	ug/L	EPA 8260B	4/18/2006
Tert-amyl methyl ether (TAME)	< 1.0	1.0	ug/L	EPA 8260B	4/18/2006
Tert-Butanol	5.0	5.0	ug/L	EPA 8260B	4/18/2006
TPH as Gasoline	24000	500	ug/L	EPA 8260B	4/15/2006
1,2-Dichloroethane	< 1.0	1.0	ug/L	EPA 8260B	4/18/2006
1,2-Dibromoethane	< 1.0	1.0	ug/L	EPA 8260B	4/18/2006
Toluene - d8 (Surrogate)	93.4		% Recovery	EPA 8260B	4/18/2006
4-Bromofluorobenzene (Surrogate)	104		% Recovery	EPA 8260B	4/18/2006
Dibromofluoromethane (Surrogate)	96.5		% Recovery	EPA 8260B	4/18/2006
1,2-Dichloroethane-d4 (Surrogate)	93.2		% Recovery	EPA 8260B	4/18/2006

Approved By: Joel Kliff

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